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Over 245 New Products!

EXTECH Calibrator/Multimeter 15 Function with TRUE RMS

Large 4000/40000 count backlit LCD displays primary, secondary, source/measure ranges and functions selected

Separate input/output banana jacks with fused protection

Precision current loop and voltage calibration source with .03% accuracy

Duty cycle: 0.1 - 99.9%

DC voltage/resolution: 400mV/1μV, 400mV/10μV - 300V/10μV

AC voltage/resolution: 40mV/1μV - 300V/μV

DC/AC current: 40mA/1μA - 400mA/μA

Resistance: $400\Omega/.01\Omega - 4M\Omega/.01\Omega$, $40M\Omega/1K\Omega$

Temperature (type K): -40°F to 2502°F @ 1/0.1°F resolution, -40°C to 1372°C @ 1/0.1°C resolution

Frequency: 100Hz/.001Hz - 200kHz/.001Hz True RMS measurement for non-linear voltage

and current loads . Pulse width: 0.2 - 1999.9mS Built-in isolated RS232 interface for data acquisition software

Includes input/output test leads, temperature probe, external battery pack, 9V battery, protective holster and pouch case

Size: 7.6"L x 3.5"W x 1.5"H

• Weight: 2.9 lbs. • One-year warranty

Part No. Product No. Description Calibrator/multimeter\$499.95 145525 CMM-15

QTRONIX. 2-Button Serial Mouse

IBM PC AT, 386, 486, Pentium® and above or 100% compatible

 Button colors: brown and dark gray

PS/2 connection DOS and Windows

compatible

Includes 3.5" setup disk and Lynx fancy mouse

Size: 4.5"L x 2.8"W x 1.8"H

Weight: 0.4 lbs. • One-year warranty

Description 2-button serial mouse\$13.95 \$12.49

UCANDO Understanding Fiber Optics Video Tape

Learn tomorrow's technology today. Fiber optics is changing the way we live, think and communicate, and you can be part of this. In this video you will learn about connectors, couplers, splices, transmitters and receivers Includes tape and student workbook. (58 minutes play time)

• Size: 9.0" x 6.0" • Weight: 0.6 lbs.

Description Understanding Fiber Optics.....\$39.95

UCANDO Laser Technology Video Tape

Discover the basics of laser technology UCANDO with this exciting training video. Learn how photon energy is produced and controlled, then examine four common laser devices: the ruby rod, HeNe, CO2 gas, and semiconductor lasers. You will learn how lasers are used for retrieving information from compact disks and scanning devices. (57 minutes play time)

• Size: 9.0" x 6.0" • Weight: 0.6 lbs.

Description 146552 Laser Technology Video Weller-Ungar Desoldering Station

· Variable temperature: 450° to 800°F

Electronic control

· 24 volt at the handle with switch for vacuum ESD safe, CMOS safe



3 wire grounded, input 120VAC @ 60Hz • Size: (base) 6.7"H x 5.1"W x 7.5"D

Weight: 9.9 lbs. • One-year warranty · For replacement tips see below

Part No. Description 146747 Desoldering station..... .\$549.95

Desoldering Replacement Tips

146763 146780 146771 146755 Part No. Product No. Description Desoldering tip .036"......\$17.95 146780 4005 Desoldering tip .046".....17.95 146771 4006 146755 4007 Desoldering tip .071"......17.95 Desoldering tip .091".....17.95 146763 4008

Weller 40-Watt Electronic **Soldering Station**

· 40 Watts, 120V @ 60Hz

 Lighted on/off switch · Adjustable power from

5 watts - 40 watts · Temperature is



electronically controlled from 350°F to 850°F Includes ST3 1/8" screwdriver tip, soldering station and soldering handle and manual

UL listed • Size: 5.5"L x 4.5"W x 3.5"H

Weight: 1.9 lbs. • One-year warranty

Part No. Product No. Description 146595 WLC100 40 watt soldering station ..\$44.95

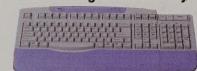
Replacement Tips for WLC100

146616 146624 146608 Tip leakage: less than 2mV • Tip to ground resistance: less than 2Ω

Replacement tips for P/N 146595
 Weight: 0.1 lbs.

Part No.	Product No.	Description	Price
146616	ST3	Screwdriver tip 1/8".	\$5.95
146624	ST7	Conical tip 1/32"	5.95
146608	ST1	Screwdriver tip 1/16"	5.95

110-Key Keyboard AT Multimedia with 18 "Intellikeys" and 19 Programmable Keys



· PC/XT/AT and compatibles (requires CD-ROM drive)

 19 Intellikeys with multimedia and application functions · Multimedia Intellikeys: play, pause, stop, volume+

and volume-, next and previous track, mute, record and rewind

 Application Intellikeys: WWW, my doc., DOS, calculator, menu, help, sleep, close, game, rotate window . Built-in microphone

18 additional programmable keys • 5-pin connector

· Includes setup and tutorial CD-ROM

• Size: 18.5"L x 7.3"W x 1.3"H

· One-year warranty · Weight: 3.1 lbs

Part No. Description 146481 110-key multimedia keybrd....\$49.95 \$44.95

Packard Bell Bare-bones System for Intel Pentium® Processors



 Select a 75-133 MHz Pentium processor (pg 13) to meet your specific needs

 Includes 8MB RAM, expandable to 128MB RAM using (4) 72-pin SIMMs • 640KB cache on board

Three 32-bit PCI slots, three 16-bit ISA slots

· Peripherals on board: hard drive and floppy drive controller, 1MB SVGA video (expandable to 2MB), serial and parallel ports

· 3.5" floppy drive with cable

· 3 exposed 5.25" bays; one internal 3.5" bay

· Includes mouse, keyboard and power cable

Case size: 17.0"L x 7.8"W x 15.5"H

· Weight: 33.0 lbs. · One-year warranty

Part No. Description 145162 Packard Bell desktop system\$249.95

Tech Spray Workshop Products









146405 146421

Anti-Static Foaming Cleaner

· Non-ozone depleting, controls static, non-streaking, easy application, foaming cleaner

Weight: 0.57 lbs.
 6 oz. can

Part No. Description 1-11 12-59 146384 Anti-static foaming cleaner\$3.95 \$3.49

Zero Charge Hand Lotion

· No silicones or Lanolin, encapsulating formula

· Applications: PCB manufacturing and assembly operations • Weight: 0.57 lbs. • 2 oz. can

Part No. Description 1-9 146413 Zero charge hand lotion.......\$2.95 \$2.49

8" Tool Brush

· For cleaning PCB boards as well as components of residue • Weight: 0.03 lbs.

Part No. Description 146392 8" tool brush\$3.95 \$3.49

Techhold Adhesive

· For bonding materials like glass, metals, rubber, ceramics and most plastics

· Best for general purpose bonding

· Weight: 0.02 lbs. · 3 grams

Part No. Description 1-9 10-24 146421 Techhold adhesive..... \$1.95 \$1.75

Alcohol Pen

 Isopropanol alcohol pen
 Weight: 0.06 lbs. Part No. Description 1-11

146405 Alcohol pen..... ...\$4.95 \$4.49



Price

.....\$39.95

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Be sure to review this 974 edition of the Jameco Catalog. We have once again added hundreds of new products and continue to offer great values in the remainder of 1997.

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146827



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catalog! Look for RED Part Numbers on all new items.



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Indicates new lower prices on stock items which we've passed on from our suppliers directly to you!

QUICK INDEX

Order Form & Information 4-5

6-19

ICs..... Discrete Components..... 20-41

Sockets & Connectors 42-51

Power Components 52-68

Kits & Solder Equipment ... 69-77

Books 78-80

PCB, Tools & Test Equip. ... 81-95

Consumer & Cellular 96

Computer Products97-127

Jim-Pak Distributors..... 128

WHAT'S NEW

Inside & Outside Covers

NEW low-cost Pentium® Computer Systems!

Page 18

More PIC Chips from Microchip® and new accessory items!

Page 30

Popular Transistors and Diodes from ECG® Semiconductor!

PAGE 83

NEW Prototyping Boards and Enclosures!

PAGE 119 & BACK COVER

The latest in high-speed Modems... 56Kbps internal and external models!

Page 129

NEW Telephone Ringing Generators from Black Magic!

Back Cover

Universal EPROM Programmer from DATA I/O for under \$1,000!

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A – B	
3M PRODUCTS	32, 46, 114, 129
ADAPTERS BNC and TNC Coax	49 96
BNC Coax Network Balun	49
DC Power	
Double Binding Post to BNC	95
Floppy Drive	109, 126
Monitor	124, 125
Mouse Null Modem	
Parallel Printer	
PLCCPower Plugs & Jacks	83
SCSI	
Serial	125
SIPP to SIMM Converters	
Token Ring	120
Universal Card (EPROM Prog.). ZIF	89
ACCELEROMETER	73
ADVANTECH PRODUCTS	Inside Front Cover, 22, 129
ADVANTECH PRODUCTSALLIGATOR CLIPS/CONNECTOR	RS95
ANTI-GLARE FILTERS	106
ANTI-STATIC EQUIPMENTAPPLE/MACINTOSH PRODUCTS	Inside Front Cover, 74
AUDIO EQUIPMENT	52, 53, 71, 96, 107, 108
BACKUP POWER SYSTEMS BANANA PLUGS	114, 115
BATTERIES & ACCESSORIES	
Batteries	
Charger	96
Holders & Snaps	
BNC CABLES/CONNECTORS	85, 9 5
BOOKS	. 16-19, 29, 30, 53, 54, 78-80 .
BOXES	84, 96, 105, 111, 118, 123
BRACKETS	96, 106, 112, 126
BREAKOUT BOXES	83 , 84, 85
BUZZERS	120, 125
OADINETO/ENOLOGUES	
	28, 30, 32, 64, 72, 81, 82
CABLE ASSEMBLIES Apple Local Talk Network	124
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode	124 m124
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial	m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor. BNC Coaxial Category 5 (UTP) (Network).	m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics	124 m 126, 127 50, 95 120 120 127 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension.	124 m 126, 127 126, 127 50, 95 120 127 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial	124 m 126, 127 50, 95 120 127 126, 127 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable	124 m 126, 127 126, 127 50, 95 120 127 126, 127 50, 95 126 127 127 127 127 128 129 126 126
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard	124 m 126, 127 50, 95 120 127 126, 127 127 128 129 129 129 120 120 120 120 120 120 120 120 120 120
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor	124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension. F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer	m 124 m 126, 127 50, 95 120 127 126, 127 127 126, 127 127 127 127 127 127 127 127 120 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension	124 m 126, 127 126, 127 50, 95 120 127 126, 127 126, 127 127 128 1297, 127 120 97, 126, 127 57, 58, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics D825-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension BCA	124 m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM CD-ROM CENTONICS DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI.	124 m 124 126, 127 126, 127 127 126 127 127 127 127 127 127 127 127 127 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension BCA Ribbon SCSI. Serial	124 m 126, 127 126, 127 126, 127 126, 127 126, 127 127 126, 127 127 126, 127 127 126, 127 126
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Riibbon SCSI Serial Shielded	124 m 126, 127 126, 127 127 128 129 129 129 129 120 120 120 127 120 120 120 120 120 120 120 120 121 120 121 121
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard. Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB).	124 m 1226 127 126 127 126 127 126 127 126 127 126 127 126 127 126 126 126 126 126 126 126 126 126 126
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB	124 m 124 126, 127 50, 95 120 127 126, 127 127 50 126 97, 127 127 120 97, 126, 127 127 57, 58, 127 127 126 126 126 127 127 126 126, 127 127 127 126, 127 127 127 128 129 129 120 120 120 121 120
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TESTERS CABLE TESTERS	124 m 126, 127 126, 127 127 127 126, 127 127 127 127 127 128 129 129 120 127 127 120 121 121 121 121 122 122 124 126 124 126 127 127 127 128 129 129 120 120 120 121 120 121 120 120 120 120
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM CP-ROM CENTONICS DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TIES & CLAMPS CAB	m 124 m 126, 127 50, 98 120 126, 127 126, 127 126, 127 126, 127 126, 127 126 97, 127 97, 126, 127 57, 58, 127 126 126 126 127 127 127 128 129 129 120 120 120 120 120 120 120 120 120 120
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard. Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension. RCA Ribbon. SCSI Serial Shielded. Switch Box Universal Serial Bus (USB). Video, RGB. CABLE TESTERS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES CALL FEID	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics. DB25-Pin Extension. F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor. Parallel Printer Power Cords Power Supply Extension RCA Ribbon. SCSI. Serial. Shielded. Switch Box Universal Serial Bus (USB). Video, RGB CABLE TIES & CLAMPS CAPACITORS	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TESTERS CABLE TIES & CLAMPS CALLER ID CAMPRA, VIDEO/WIRELESS/BO CAPACITORS	m 124 m 126, 127 126, 127 127 126, 127 127 126, 127 127 127 128 129 129 127 127 121 127 127 127 128 129 129 129 129 129 129 129 129 129 129
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CABLE CAPACITORS Assortment CCAPACITORS ASSOrtment CCAPACITORS ASSOrtment Ceramic Disc Dipped Tantalum	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard. Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB. CABLE TESTERS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS Assortment Ceramic Disc Dipped Tantalum Electrolytic, Axial	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TV SPLITTER CAPACITORS Assortment Ceramic Disc Dipped Tantalum Electrolytic, Axial Electrolytic, Large Can Aluminum Electrolytic, Large Can Aluminum Electrolytic, Large Can Aluminum	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard. Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB. CABLE TESTERS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS Assortment Ceramic Disc Dipped Tantalum Electrolytic, Axial Electrolytic, Large Can Aluminum Electrolytic, Raidal	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics. DB25-Pin Extension. F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI. Serial. Shielded Switch Box Universal Serial Bus (USB). Video, RGB CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TO SPLITTER CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS Assortment Ceramic Disc. Dipped Tantalum Electrolytic, Axial Electrolytic, Large Can Aluminum Electrolytic, Radial	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard. Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TESTERS CABLE TES & CLAMPS CABLE TIES & CLAMPS CABLE	124 m 124
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CC-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TO SPLITTER CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS Assortment Ceramic Disc Dipped Tantalum Electrolytic, Axial Electrolytic, Large Can Aluminum Electrolytic, Radial Memory Monolithic, Ceramic Mylar Silver Mica SMT. Ceramic Chio/Tantalum Silver Mica SMT. Ceramic Chio/Tantalum	m 124 m 126, 127
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TESTERS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CALLER ID CAMPARA, VIDEO/WIRELESS/BO CAPACITORS ASSOrtment Ceramic Disc Dipped Tantalum Electrolytic, Large Can Aluminum Electrolytic, Radial Memory Monolithic, Ceramic Mylar Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic Ceramic Cleramic Mylar Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic	124 m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TIES & CLAMPS CABLE TESTERS CABLE TESTERS CABLE TY SPLITTER CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS Assortment Ceramic Disc Dipped Tantalum Electrolytic, Axial Electrolytic, Radial Memory Monolithic, Ceramic Mylar Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic Varistors CARDED COMPUTER	124 m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TESTERS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS Dipped Tantalum Electrolytic, Axial Electrolytic, Large Can Aluminum Electrolytic, Radial Memory Monolithic, Ceramic Mylar Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic Varistors CARDS, COMPUTER CCARDM,	124 m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics DB25-Pin Extension F-Type Coaxial Hard Disk Drive IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor Parallel Printer Power Cords Power Supply Extension RCA Ribbon SCSI Serial Shielded Switch Box Universal Serial Bus (USB) Video, RGB CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CALLER ID CAMERA, VIDEO/WIRELESS/BO CAPACITORS ASSOrtment Ceramic Disc Dipped Tantalum Electrolytic, Large Can Aluminum Electrolytic, Radial Memory Monolithic Ceramic Mylar Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic CAPD, COMPUTER CAPO. COMPUTER CAPO. Diagnostic	124 m
CABLE ASSEMBLIES Apple Local Talk Network Apple/Macintosh Printer & Mode Audio/Monitor BNC Coaxial Category 5 (UTP) (Network) CD-ROM Centronics. DB25-Pin Extension. F-Type Coaxial Hard Disk Drive. IEEE 488 and 1284 Cable Keyboard Modular/Telephone Monitor. Parallel Printer Power Cords Power Supply Extension RCA Ribbon. SCSI. Serial. Shielded. Switch Box Universal Serial Bus (USB). Video, RGB. CABLE TESTERS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CABLE TIES & CLAMPS CAPACITORS Assortment Ceramic Disc. Dipped Tantalum Electrolytic, Axial Electrolytic, Large Can Aluminum Electrolytic, Radial Memory Monolithic, Ceramic Mylar Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic Chalton Composition Cate Composition Silver Mica SMT, Ceramic Chip/Tantalum Trimmer, Ceramic Chalton Composition Cate Cate Cate Cate Cate Cate Cate Cate	m

New products in Red. Primary pages in		
Graphics	05, 09,	124
Hard/Floppy Disk Drive Controller	k Co	ver
Memory 16, 11 Miscellaneous .84, 99, 107, 110, 1 Modem .119, Back	23,	124
Network	k Co 21,	ver 129
Network	k Co	ver
Sound	13,	127
CELLULAR PHONE ACCESSORIES	74	.96
CIRCUIT BOARD MOUNTING HARDWARECLIPBOARD	81,	83
CLIDS		
Alligator		
CLOCK CHIPS		.12
CLOCK MODULES	17	27
COLLET PIN CARRIERSCOMPASS, ELECTRONIC/GIMBALED		.46
COMPONENT CABINETS	21,	32
COMPLITER		
AccessoriesInside Front Cover, 96-127, 129, Back-Back-Up.	Co	ver
Brackets96, 106, 1	12, 1	26
Power Supplies	13, 1 99, 1	22
Back-Up. Brackets	Co	ver
BNC, TNC, Coax	95, 1	.43
Centronics, Cable, IDC, PC Mount, Right Angle	.47,	48
DIN		.44
D-Sub, IDC/Solder Cup/Wire Wrap		.47
D-Sub, PC Mount, Right Angle/Straight	1	47
Headers	.44	45
Housings, Square Pin IDC Plug and Socket/ Wire	.44,	51
LED		20
Modular/Telephone48, 50, 1	18-1	20
Molex	18 1	20
Pins 44, Power 42,	45.	48
RCA	.44,	49
SCSI II/III		48
SMA		
Terminal Blocks		43
Token Ring Twinax, Network	1	20
Twinax, Network. CONSUMER PRODUCTS	9, 1	24
CONVERTERS14, 16, 66, 107, 11	8, 1	25
CORDGUARD11	.22,	99
	4, 1	26
CORDI ESS PHONE	4, 1	20
CORDLESS PHONE	1	24 55
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES 13, 9 CRYSTALS/OSCILLATORS 20,	1	24 55
CORDLESS PHONE	1	24 55
CORDLESS PHONE. COUPLER/COLLAR. CPUs & UPGRADES	98, 1 22,	26 24 55 00 23
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES	98, 1 22, 1 78-8	26 24 55 00 23 10 23 30.
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES	98, 1 22, 1 78-8	26 24 55 00 23 10 23 30.
CORDLESS PHONE COUPLER/COLLAR CPUS & UPGRADES	98, 1 22, 1 78-8	26 24 55 00 23 10 23 30.
CORDLESS PHONE COUPLER/COLLAR CPUS & UPGRADES	98, 1 22, 1 78-8	26 24 55 00 23 10 23 30.
CORDLESS PHONE COUPLER/COLLAR CPUS & UPGRADES	98, 1 22, 1 78-8 8, 1 84, 76,	26 24 55 00 23 10 23 30, 23 55 91 77 84 94 28
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES	98, 1 22, 1 78-8 8, 1 84, 76,	26 24 55 00 23 10 23 30, 23 55 91 77 84 94 28 17
CORDLESS PHONE COUPLER/COLLAR CPUS & UPGRADES	98, 1 22, 1 78-8, 1 93,	26 24 55 00 23 10 23 30, 23 55 91 77 84 94 28 17
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES	08, 1 22, 22, 1 78-8 8, 1 84, 76, 93,	10 23 30, 23 55 91 77 84 94 28 17 02 30
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES	98, 1 22, 1 78-8, 1 84, 76, 93,1 24,1	26 24 55 00 23 30, 23 55 91 77 84 94 28 17 02 30 16 28
CORDLESS PHONE COUPLER/COLLAR. CPUs & UPGRADES	98, 1 22, 1 78-8 8, 1 22, 1 78-8 93, 1 24,1	26 24 55 00 23 30, 23 55 91 77 84 94 28 17 02 30 16 28
CORDLESS PHONE COUPLER/COLLAR. CPUS & UPGRADES	98, 11 22, 1 78-8, 1 84, 76, 93,1 224, 1	26 24 55 00 23 30, 23 55 91 77 84 94 28 17 02 30 16 28
CORDLESS PHONE COUPLER/COLLAR CPUs & UPGRADES	93, 11 224, 1	26 24 55 00 23 30, 23 55 91 77 84 94 28 17 02 30 16 28
CORDLESS PHONE COUPLER/COLLAR. CPUS & UPGRADES	14, 1 188, 1 122, 1 178-8 8, 1 178-8 8, 1 24, 1 24, 1 124, 1 121, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 24 55 00 23 10 23 30, 23 55 91 77 84 92 17 02 30 16 28 28 13 08 09 10 10 10 10 10 10 10 10 10 10 10 10 10
CORDLESS PHONE COUPLER/COLLAR. CPUS & UPGRADES	14, 1 188, 1 122, 1 178-8 8, 1 178-8 8, 1 24, 1 24, 1 124, 1 121, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 24 55 00 23 10 23 30, 23 55 91 77 84 92 17 02 30 16 28 28 13 08 09 10 10 10 10 10 10 10 10 10 10 10 10 10
CORDLESS PHONE COUPLER/COLLAR CPUS & UPGRADES	14, 1 188, 1 122, 1 178-8 8, 1 178-8 8, 1 24, 1 24, 1 124, 1 121, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 24 55 00 23 10 23 30, 23 55 91 77 84 92 17 02 30 16 28 28 13 08 09 10 10 10 10 10 10 10 10 10 10 10 10 10
CORDLESS PHONE COUPLER/COLLAR	98, 1 22, 1 78-8 8, 1 84, 76, 93, 1 24,1 21, 1 22, 1 3, 1 24,1 21, 1 22, 1 22, 1 3, 1 23, 1 24, 1 3, 1 20, 1	26 24 55 00 23 30, 23 55 91 77 84 94 28 17 02 30 84 29 22 22 22 22 22 22
CORDLESS PHONE COUPLER/COLLAR CPUS & UPGRADES	98, 1 22, 1 78-8 8, 1 84, 76, 93, 3, 1 24, 1 14, 1 3, 1; Cov	26 24 55 50 23 10 23 30, 35 55 59 177 84 94 28 17 28 17 28 17 28 17 28 17 28 17 28 17 28 18 18 18 18 18 18 18 18 18 18 18 18 18

Cooling SystemCPU Heat Sink w/ Fan	99
Filters	58
Hard Drive	
Guards Temperature Sensor	
Tube-Axial AC	58
FAX SWITCHER	
FAX/MODEMS119. Ba	ck Cover
FILTERS, POWER ENTRY AND LINE	57
FLUORESCENT LAMP	28, 96
FREQUENCY COUNTERSFUME EXTRACTOR & ACCESS.	91
FUNCTION GENERATORS	90. 91
FUSES & FUSE HOLDERS	60
GAME CARDGEARS	20 55
GENDER CHANGERS & ADAPTERS	125
GENERATOR, TELEPHONE RINGER	91. 93
GRAB BAGS	20
GRAPHIC CARDS	105, 124
HARD DISK DRIVES/ACCESS110-	113, 126
HARDWARE Brackets96, 106,	112 126
Cable Mounting	50
Connector Mounting	
Handles	56
Heat Sink Mounting	
Kit LED Mounting	
PCB Mounting	81, 83
Screws, Nuts, Washers	
Standoffs	56, 83
HEADER PLUGS	44, 45
HEAT SHRINK TUBINGHEAT SINKS	36
HEAT SINKS	
Compound	22
TO-3, TO-5, TO-220, General Package	22
486 CPU	2, 58, 99
- According the Contract and	2, 30, 33
IO DENEL ORNERIE FOOL O	
IC DEVELOPMENT TOOLS	18
IC DEVELOPMENT TOOLS	8-19, 21
IC KITS	8-19, 21 89, 90
IC KITS	8-19, 21 89, 90 46
IC KITS	8-19, 21 89, 90 46 122
IC KITS	8-19, 21 89, 90 46 122 24, 26
IC KITS	8-19, 21 89, 90 46 122 24, 26 30
IC KITS	8-19, 21 89, 904624, 2630 104, 125102 ck Cover
IC KITS	8-19, 21 89, 904624, 2630 104, 125102 ck Cover 124, 129
IC KITS	8-19, 21 89, 904612224, 2630 104, 125102 ck Cover 124, 129101
IC KITS	8-19, 21 89, 904624, 2630 104, 125102 ck Cover 124, 129101
IC KITS	8-19, 21 89, 904612224, 2630 104, 125102 ck Cover 124, 129101
IC KITS	8-19, 21 89, 904612224, 26102102101
IC KITS	8-19, 2189, 90
IC KITS	8-19, 21 89, 904612224, 2630 104, 125102k Cover 124, 12910114131620, 2119, 1299
IC KITS	8-19, 21 89, 904612224, 2630 104, 1251025k Cover 124, 12910114131620, 2119, 129916
IC KITS	8-19, 2189, 904612224, 2630102 sk Cover 124, 1291014131620, 2119, 1299161217, 27
IC KITS	8-19, 2189, 904612224, 2630102 sk Cover 124, 1291014131620, 2119, 1299161217, 27
IC KITS	8-19, 2189, 904612224, 263030104, 125102sk Cover124, 129101131620, 2119, 12991620, 2119, 12991620, 2119, 12991620, 213030
IC KITS	8-19, 2189, 904612224, 263030104, 1251022k Cover124, 129101131620, 2119, 12999161221, 17, 278, 93, 14, 1621, 13, 9813
IC KITS	8-19, 2189, 904012224, 263030104, 125102sk Cover124, 12910114131620, 2119, 1299161217, 278, 9914, 1613, 9813, 9813
IC KITS	8-19, 2189, 904612224, 263030104, 125102252119, 12919, 129311620, 21311621, 12, 12931 .
IC KITS	8-19, 2189, 904612224, 26102sk Cover 124, 12910114131620, 2119, 1298, 912178, 18161715, 1617
IC KITS	8-19, 2189, 904612224, 2630102x10
IC KITS	8-19, 2189, 904612224, 2630104, 125101124, 12910114131620, 2119, 12991217, 278, 9161715, 1617191415
IC KITS	8-19, 2189, 904012224, 26, 26, 2110210114131620, 2119, 1291621, 1291621, 13, 181617151515
IC KITS	8-19, 2189, 904612224, 26102102104, 12510111413161619, 1299916122, 17, 278, 9122, 17, 278, 18161715, 1617171914, 151515
IC KITS	8-19, 2189, 904612224, 26, 26, 21102k Cover 1224, 12910114131620, 2119, 1298, 9 3, 14, 16 2, 17, 278, 9 3, 14, 161715, 161715, 161715, 171914, 1515151515
IC KITS	8-19, 2189, 904612224, 2630104, 125102k Cover 124, 12910114131620, 2119, 129991217, 278, 918, 1914, 161715, 1617171914, 151515151517
IC KITS	8-19, 2189, 904612224, 26, 26, 21102k Cover 124, 12910114131620, 2119, 1299910114, 1621, 17151617171914, 1515151515151515171914, 15151515171914, 151
IC KITS	8-19, 2189, 904612224, 2630104, 125124, 129124, 12914131620, 2119, 12991612, 17, 278, 916, 1217, 1515151515151515151515151515171914, 15151515151515171914, 15151515171914, 1515151515171914, 1515151515171914, 151515151515151719141411414
IC KITS	8-19, 2189, 90
IC KITS	8-19, 2189, 904612224, 2630104, 125124, 129124, 12914131620, 21119, 12991612, 17, 278, 916, 1217, 15
IC KITS	8-19, 2189, 904612224, 26, 26, 211024c Cover124, 12910114131620, 2119, 1291621, 1291621, 13, 141515171715, 161715, 161715, 161715, 16171914, 151515151515151515171914, 1515151515151515171914, 1515151515151515171914, 15 .
IC KITS	8-19, 2189, 90

Pentium®/Pro®/MMX® Processor Chips	
PIC18, Back Co	
PROMsRCA Linear	
Signetics	.10
SIPP and SIMM Modules	
Surface Mount8.	12
Telephone ChipsUARTs/USARTs/DUARTs/MUARTs	9
Voice Chips	18
Z80 Series Microprocessors	.12
5000 Series Microprocessors	
6000 Series Microprocessors	
7400-TTL (DIP)	6
74C00-TTL, CMOS (DIP)	6
74HC00-TTL, CMOS (DIP/SMT)	8
74HCT00-TTL, CMOS (DIP)	8
74LS00-TTL (DIP)	
8000 Series Microprocessors	.13
9000 Series Microprocessors	.14
	120
J-M :	
JIM-PAK Distributor Program/Network	128
JOYSTICK & GAME CONTROLLER	104
KESTER SOLDER & ACCESSORIESKEYBOARDS/KEYPADS & ACCESSORIES	.75
Macintosh	124
PClns Frt Cvr, 102, 103, 122, 124, 127, Bk	Cvr
KITS Basic Stamp Programming19,	129
Clock	.72
Development Kits	73
Laser Pointer	
Miscellaneous49, 54, 55, 69-74, 85, 101, 108,	120
PC Photo Etch PCB Design Kits	
PIC	
Robot Kits	
Velleman	-72
Capacitors	
CMOS, CD4000 Series	
Grab Bags	
Hardware, Mounting	.21
IC Kit, 7400 Series	21
IC Sockets	.21
LEDs	
Potentiometers	
Resistors	33
Refills	
Transistors	.21
KITS, ELECTRONIC 18, 19, 21, 29, 49, 54, 55, 69-74, 101, 120,	129
KNOBSLAMP, Magnifying/Mini-Fluorescent	96
LAMPS LASER DIODE & ACCESSORIES	.28
LASER DIODE & ACCESSORIES1 LASER POINTERS1	101
LCDs27,	
LCR/LCD Meters91	-94
LEDS	27 .29
LEDS	27 .29 93
LEDS	27 .29 .93 115
LEDS	27 .29 .93 115
LEDS	27 .29 .93 115 .57 .92
LEDS	27 .29 .93 115 .57 .92 107 127
LEDS	27 .29 .93 .115 .57 .92 .97 .27 .56 .96
LEDS	27 .29 .93 .115 .57 .92 .97 .27 .56 .96
LEDS	27 .29 .93 .115 .57 .92 .07 .27 .56 .96 .14
LEDS	27 .29 .93 .115 .57 .92 .07 .27 .56 .96 .14
LEDS	27 .29 .93 .115 .57 .92 .97 .27 .56 .96 .14
LEDS	27 .29 .93 .115 .57 .92 .07 .27 .56 .96 .14 .36 .24 .16 .16
LEDS	27 .29 .93 .115 .57 .92 .07 .27 .56 .96 .14 .36 .24 .16 .16 .00 .16
LEDS	27 .29 .93 .115 .57 .92 .07 .27 .56 .96 .14 .36 .14 .36 .16 .00 .16 .98 .99
LEDS	27 29 93 115 5.57 .92 107 127 5.56 .96 .14 .36 .124 .16 .16 .100 .16 .98 99 99 99 99 99 99 99 99 99 99 99 99 9
LEDS	27 29 93 115 5.57 .92 107 127 5.56 .96 .14 .36 .124 .16 .16 .100 .16 .98 99 99 99 99 99 99 99 99 99 99 99 99 9
LEDS	27 29 93 115 .57 .92 007 227 .56 96 .14 .36 .224 .16 .16 .100 .16 .98 99 .93 .93 .93 .93 .93 .93 .93 .93 .93
LEDS	27 29 93 115 .57 .92 007 227 .56 96 .14 .36 .224 .16 .16 .100 .16 .98 99 .93 .93 .93 .93 .93 .93 .93 .93 .93
LEDS	27 29 93 115 5.57 .92 .07 227 25 6.56 .14 .36 .16 .16 .100 .16 .98 .99 .93 .129
LEDS	27 29 93 115 5.57 .92 07 127 6.56 .96 .14 .16 .16 .16 .98 .99 .93 .93 .129 .52 .07 .23 .24 .24 .24 .25 .25 .25 .25 .25 .25 .27 .27 .27 .27 .27 .27 .27 .27 .27 .27
LEDS	27 29 93 115 5.57 .92 07 127 6.56 .96 .14 .36 .224 .16 .16 .100 .98 .99 .99 .99 .52 .07 .23 .07 .23 .07 .24 .07 .07 .07 .07 .07 .07 .07 .07 .07 .07
LEDS	27 29 93 115 5.57 .92 27 5.56 96 1.14 .36 224 1.16 1.16 1.16 1.16 1.16 98 99 99 90 93 129 129 129 129 129 129 129 129 129 129

JAIV	ECU	P	R	U	D
New product	s in Red.	Primary	, pag	es in	bold
MOTORS DC					20.55
Gears			*********		55
Shaft Coupler/C	ollar				55
MULTIMETER TE MULTIMETERS		Inside Fro	ont Cov	er. 91.	93. 94
MUSCLE WIRE			EMBARGON POR		54
N – R					
NETWORK PROD	DUCTS	48, 49, 118	i, 120, 1	121 , 12	4, 129
NIC CAPACITORS OK TOOL AND A	CCESSORIES	3		46, 51,	86, 88
OPTOISOLATOR ORDER FORM &	INFORMATIO	ON			4. 5
OSCILLATORS/C OSCILLOSCOPE	S/PROBES				91, 92
PANAVISE PANEL METER					28
PARALLEL LINE	PUTERS BOOSTER			1	9, 129
PC BOARDS/EXT	TENDERS				.81-84
PCB ARTWORK/I	DEVELOPME	NT ACCESS	SORIES	3	73. 74
PHOTOCELLS					25
PHOTO TRANSIS					
Banana DIN, IDC DIP					
POTENTIOMETE					
Assortment					
Audio Carbon Slide					35
Cermet Linear Taper					
Trimmer (Miniator) POWER BASES/S	STRIPS			11	4 115
POWER CONVER	CTORS/PINS				42, 45
POWER CORDS			57	7, 58, 6	4, 127
POWER ENTRY POWER JACKS/F	LUGS				63
POWER PROTECT POWER SUPPLIE	ES				
Computer Enclosed					
DCGeneral Purpose				28, 64,	84, 91
Linear					
Auto Switchers/S	Switch Boxes.			11	7, 118
Buffers/Sharers/ PROGRAMMERS	.,	19	, 89, 90), Back	Cover
PROTOTYPE AD PROTOTYPE BO	ARDS			18	81-84
RAM CARDS RAM/MEMORY				16, 11	7 , 124
RARE EARTH MA	AGNET				56
DIP General, Plastic	Enclosed/T-0	0/250/338			40
Solid State					
RESISTORS				20,	21, 35
RFI POWER/LINE ROBOTICS				20, 54,	55, 73
ROTARY SWITCH RUBBER FEET	1ES				38 32 , 81
S					
SCR'S (Silicon co	ntrolled rectifi	ers) – Diode	S		24, 30
SCANNERS, Han SECURITY PROD	d Held/Sheet	Feed/Flatbe	db		101
SENSORS SERIAL CARD, IE			30	1 52 7	3. 100
SERIAL/PARALLE	EL CONVERT	ER			118
SHORTING BLOC SHRINK TUBING					36
SIMM CONVERTI					
SIPP TO SIMM C SIPP/SIMM TEST					
SOCKETS & ACC	ESSORIES				
Collet Pin Carrie	rs				46
DIN Header Plugs					46
LED/Lamps Low Profile DIP					43
Machine Tooled					43
PGA, PLCC, ZIF	Sockets				46
Relay					46
SIMM/SIPP Wire Wrap					43
Wire Wrap ID La					46
SOLENOIDS					20, 54

SOFTWARE	
Design	18, 19
Hard Drive	96, 110
SCADA	123
SOLAR PANELSOLDERING EQUIPInside Front	60 Cover 75-77
SOLDERLESS BREADBOARDS	83. 84. 85
SOUND CARDS52, 53, 71	108
SPACERS52, 53, 71	
STEPPER MOTORS & ACCESS	55, 69
SURFACE MOUNT Capacitors	32
Diodes	24
ICs Tools	
Transistors SURGE PROTECTORS	31
SWITCH BOXES	117, 118, 124
SWITCHES DIP	38
Keylock	38
Push Button	
Rotary	38
Thumbwheel	
Slide	
T-Z	
TECH SPRAY CHEMICALS & ACCESS	C. 22. 74. 75
TELEPHONE CONNECTORS & ACCESS. 48, 50 TELEPHONE RINGER GENERATOR), 51, 118-120
TERMINALS	
Blocks	
Solderless Wire Wrap	82
TEST EQUIPIFC, 50, 72, 89-95 , 106, 120, TEST LEADS/PROBES/CLIPS	125, 129, BC 85, 92, 94 , 95
THERMISTORS	36
THERMOELECTRIC COOLER, HEAT SINK TIE MOUNTS	
TOOLS Anti-static	74
Crimping/Stripping/Cutting	44, 47, 48, 86
Hemostat IC	
Insertion/Extraction14.	42, 45, 48-50
Kits/Sets	/5 /6 86-88
	6, 86-88, 129
Nibbling	83
Nibbling	
Nibbling Punch-down Screw/Nut Drivers Soldering Inside Front	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap	83 88, 129 Cover, 75-77 44, 88
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio	
Nibbling Punch-down Screw/Nut Drivers Soldering Inside Front Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modem Coupling	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modern Coupling Power Quick Connect, Split Bobbin, Step Up/DoTable	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modem Coupling Power Quick Connect, Split Bobbin, Step Up/Do Table Variable Wall (AC and DC)	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modem Coupling Power Quick Connect, Split Bobbin, Step Up/Do Table Variable Wall (AC and DC)	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modem Coupling Power Quick Connect, Split Bobbin, Step Up/Do Table Variable Wall (AC and DC)	
Nibbling Punch-down Screw/Nut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modern Coupling Power Quick Connect, Split Bobbin, Step Up/DoTable Variable Wall (AC and DC) TRANSISTORS 20, TRANSMITTER, CAMERA 107 TRIMMER POTENTIOMETERS TRIMMER POTENTIOMETERS TRIMMER POTENTIOMETERS	
Nibbling Punch-down Screw/Nut Drivers Soldering Inside Front Vises Wire Wrap TRACKBALL TRACKBALL TRACKBALL TRANSFORMERS Audio Modem Coupling Power Quick Connect, Split Bobbin, Step Up/Do Table Variable Wall (AC and DC) TRANSISTORS 20, TRANSISTORS 20, TRIMMER CAPACITORS. TRIMMER CAPACITORS. TRIMMER POTENTIOMETERS TRIPPLITE UVP EPROM ERASERS VARISTORS	
Nibbling Punch-down Screw/Nut Drivers Soldering Inside Front Vises Wire Wrap TRACKBALL TRACKBALL TRACKBALL TRANSFORMERS Audio Modem Coupling Power Quick Connect, Split Bobbin, Step Up/Do Table Variable Wall (AC and DC) TRANSISTORS 20, TRANSISTORS 20, TRIMMER CAPACITORS. TRIMMER CAPACITORS. TRIMMER POTENTIOMETERS TRIPPLITE UVP EPROM ERASERS VARISTORS	
Nibbling Punch-down Screw/Nut Drivers Soldering	
Nibbling Punch-down Screw/Nut Drivers Soldering	
Nibbling Punch-down Screw/Nut Drivers Soldering	
Nibbling Punch-down Screw/dut Drivers Soldering Vises Wire Wrap TRACKBALL TRANSFORMERS Audio Modem Coupling Power Quick Connect, Split Bobbin, Step Up/Do Table Variable Wall (AC and DC) TRANSISTORS Q10 TRANSMITTER, CAMERA 10 TRIMMER CAPACITORS TRIMMER POTENTIOMETERS TRIPPLITE UVP EPROM ERASERS VARISTORS VCC PRODUCTS VECTOR PROTO PC BOARDS VELLEMAN KITS VGAYUDEO CANDS VIDEO CONFERENCING VIDEO CONFERERS VIDEO MODULATORS VIDEO MODULATORS VIDEO GONERTERS VIDEO GONERTERS VIDEO MODULATORS	
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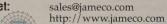
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6

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49040	7404★	14	Hex inverter (9016) (FD-1073-BJ)39	.35	.29	49824	74179	16	4-bit parallel-access shift register		.69	.39
49074	7405	14	Hex inverter (0.C.)	.25	.19	49832	74180	14	9-bit odd/even parity generator/check		.69	.39
49091	7406★	14	Hex inverter buffer/driver (O.C.)	.29	.25	49841	74181	24	Arithmetic logic unit/function generat			1.55
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49402	7413	14	Dual 4-input NAND gate Schmitt trig25	.22	.10	49955	74194	16	4-bit bi-directional shift register			1.09
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49509	74150 ★	24	16 to 1 line multiplexer1.75	1.55	1.35	141	00 361	169	The same and the s	ine Package	ции	
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48303	74S08	14	Quad 2-input AND gate			.10	3771	74LS138★		3 to 8 decoder/demultiplexer (74ALS138) .2		
48320	74S10	14	Triple 3-input NAND gate			.10	1 1000	74LS139★	16	2 to 4 decoder/demultiplexer		
48338	74S11	14	Triple 3-input AND gate			.10	13333	74LS145	16	BCD-to-decimal decoder/driver4		
48573	74S20	14	Dual 4-input NAND gate			.10	1 10000	74LS147★	16	10 to 4 priority encoder9		
48750	74S32	14	Quad 2-input OR gate			.10	900000	74LS148	16	8 to 3 priority encoder		
48944	74S74 74S138	14	Dual D flip-flop			.15		74LS151★		8-input multiplexer		
48397	74S188	16 16	256-bit (32x8) PROM O.C. (27S18)			2.75	2000	74LS153	16	Dual 4 to 1 selector/multiplexer		
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48696	74S287	16	1K-bit (256x4) PROM tri-state (TBP24S10)			2.75	1	74LS155	16	Dual 2/4 demultiplexer (3013525-00)2		
	74S288	16	256-bit (32x8) PROM tri-state (27S19)			1.95		74LS156	16	Dual 2/4 demultiplexer (O.C.)		
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	74S374	20	Octal D flip-flop edge-triggered tri-state			.29	46797	74LS158	16	Quad 2/1 multiplexer inverter		
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46287	74LS02★	14	Quad 2-input NOR gate (74ALS02)	.25	.19	.17	46973	74LS181	24	Arithmetic logic unit/function generator 1.0		
46308	74LS03	14	Quad 2-input NAND gate (O.C.)	.25	.19	.12		74LS190	16	Up/down decade counter		
46316	74LS04★	14	Hex inverter (74ALS04)	.25	.19	.17		74LS191*	16	Up/down binary counter		
46341	74LS05	14	Hex inverter (0.C.) (74ALS05)	.25	.19	15		74LS192*		Decade up/down counter with clear		
46359	74LS06★	14	Hex inverter buffer/driver (O.C.)		.35	.29	43336	74LS193*		Binary up/down counter with clear		
	74LS07	14	Hex buffer/driver (O.C. hi-voltage)		.59	.49		74LS194	16	4-bit bi-directional shift register		
46375	74LS08★	14	Quad 2-input AND gate (74ALS08)		.19	.17		74LS195	16	4-bit parallel-access shift register		
46391	74LS09	14	Quad 2-input AND gate (O.C.)		.19	.15		74LS221*		Dual mono. multivibrator Schmitt trigger3		
46404	74LS10	14	Triple 3-input NAND gate		.19	.17		74LS240★		Octal invert. line driver tri-state (74ALS240)3		
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47466	74LS32★	14	Quad 2-input OR gate		.19	.17	47280	74LS253	16	Dual 4 to 1 multiplexer tri-state	5 .29	.12
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47790	74LS47★	16	BCD to 7-seg. decoder/driver (0.C.)	.89	.79	.69		74LS266	14	Quad EXCLUSIVE-NOR gate (O.C.)		
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47853	74LS54	14	Quad 2-input AND/OR invert. gate	.29	.25	.15		74LS280	14	9-bit odd/even parity generator/checker2		
47992	74LS73	14	Dual JK flip-flop with clear		.29	.25		74LS283	16	4-bit binary full add with fast carry		
48004	74LS74★	14	Dual D flip-flop (74ALS74)		.19	.17	47440	74LS299	20	8-bit universal shift/storage register1.0		
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48071	74LS85	16	4-bit magnitude comparator		.29	.25	4/562	74LS367	16	Hex buffer tri-state	9 .25	.22
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47731	74LS393	14	Dual 4-bit binary counter45	.39	.35	46105	74HC595	16	8-bit serial-to-parallel shift reg. tri-state99	.89	.79
47861	74LS540	20	Octal invert. buffer/line driver tri-state45	.39	.29	46113	74HC688	20	8-bit mag. comparator	.69	.59
47870	74LS541	20	Octal buffer/line driver tri-state	.59	.49	46199	74HC942	20	Full duplex low speed 300 baud modern chip	Closeout	2.49
64418	74LS573	20		1.19	.89	46201	74HC943	20	Full duplex 300 baud modem chip7.95	6.95	4.95
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47909	74LS590	16	8-bit binary cntr. without reg. tri-state2.75	2.49	1.95	45903	74HC4020	16	14-stage binary counter	.45	.25
103974	74LS595	16	8-bit serial-to-parallel shift reg. tri-state2.25	1.95	1.49	45920	74HC4040	16	12-stage binary counter	.59	.35
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45188	74HC02	14	Quad 2-input NOR gate25	.19	.15			14	Quad 2-input NAND gate		.08
3	74HC04★	14	Hex inverter (buffered)	.19	.17		74HC14D 74HC74D	14	Hex inverter Schmitt trigger		.15
88081	74HC05	14	Hex inverter (0.C.)	.25	.15		74HC138D	16	Dual D flip-flop		.25
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45268	74HC11	14	Triple 3-input AND gate	.19	.12						.13
	74HC14★	14	Hex inverter Schmitt trigger	.29	.25	74H	CTOO S	erio	Dual-In-Line Packa	e iii	iiiiii
45786	74HC30	14	8-input NAND gate25	.19	.12		74HCT00	14	Quad 2-input NAND gate		\$.15
	74HC32	14	Quad 2-input OR gate25	.19	.15		74HCT02	14	Quad 2-input NOR gate		.15
	74HC74★	14	Dual D flip-flop29	.25	.22		74HCT04	14	Hex inverter		.19
	74HC85	16	4-bit magnitude comparator	.49	.45		74HCT05	14	Hex inverter (O.C.)		.25
	74HC86	14	Quad EXCLUSIVE-OR gate	.29	.25		74HCT08	14	Quad 2-input AND gate		.15
	74HC112	16	Dual JK flip-flop	.29	19	44935	74HCT14	14	Hex inverter Schmitt trigger		.35
45292	74HC123	16	Dual retrig. monostable multivibrator49	.45	.39	45057	74HCT32	14	Quad 2-input OR gate		.19
	74HC125	14	Quad bus buffer tri-state	.25	.15	45137	74HCT74	14	Dual D flip-flop		.19
45321	74HC132	14	Quad 2-input NAND Schmitt trigger49	.45	.39	44927	74HCT138	16	3 to 8 decoder/demultiplexer		.25
	74HC138	16	3 to 8 decoder/demultiplexer	.39	.35	63773	74HCT139	16	2 to 4 decoder/demultiplexer	29	.12
45356	74HC139	16	2 to 4 decoder/demultiplexer	.39	.35	88057	74HCT154	24	4 to 16 decoder/demultiplexer		1.09
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	74HC163	16		.45	.25	45049	74HCT273	20	Octal D-type flip-flop with clear		.25
45487	74HC164	14	Synchronous 4-bit counter	.29	.19		74HCT373	20	Octal D-type flip-flop tri-state		.39
45495	74HC165	16	Parallel load 8-bit serial shift reg	.45	.39		74HCT374	20	Octal D-type flip-flop edge-trig. tri-state		.29
	74HC174	16	Hex D flip-flop with clear	.49	.35		74HCT541	20	Octal buffer/line driver tri-state		.69
45516	74HC174	16	Quad D-type flip-flop with clear	.29	.19		74HCT573	20	Octal D-type latched flip-flop tri-state		.69
	74HC192	16	Decade up/down counter with clear	.29	.25		74HCT574	20	Octal D-type flip-flop edge-trigger tri-state		.69
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Ger	erators	5	Dual-In-Line P	ackag	a 🎢	WW.	13338	CD4077	14	Quad EXCLUSIVE-NOR gate	29	.25	.17
10807	AY-3-8910	40	Prog. sound gen. with 2 8-bit I/O ports (YM2			\$6.95	13346	CD4078	14	8-input NOR gate		.19	.10
25021	MC14411P		Bit rate frequency generator			5.39	13354	CD4081★ CD4093★	14	Quad 2-input AND gate		.19	.17
52257	WD8116	18	Dual baud rate clock gen. (4.91/5.06MHz)			2.75	13400 13426	CD4093	14 16	Quad 2-input NAND Schmitt 8-stage shift-and-store bus i		.25 .45	.22
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10786	AY-3-1015E		25K BAUD UART			8.95	13611	CD4528★	16	Dual monostable multivibrator		.59	.49
10823	AY-5-1013A	40	40K BAUD UART (TR1602)	C	loseout	8.95	13653	CD4538★	16	Dual precision monostable mult		.45	.39
CD/	1000 Se	rie	N			didi.	13688	CD4541	14	Oscillator/programmable time		.45	.39
					444		13696	CD4543	16	BCD to 7-segment decoder (LCI		.59	.49
12562	Product No. CD4001★		Description Ound 2 input NOR gate	1-9	10-99	100	13709 13725	CD4553 CD4556	16 16	3-digit BCD counter Dual binary 1 of 4 decoder in		2.75	2.49
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12669	CD4012	14	Dual 4-input NAND gate	.25	.19	.15	Part No.	Descripti	on	See page 21 for details	3 100	ı	5-9
12677	CD4013★	14	Dual D flip-flop with set/reset		.19	.17	84970	300 pc.	CD40	00 series IC kit	Value \$84.95	5 \$	76.95
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12773	CD4017 X	16	Decade counter/divider Presettable divide-by-N counter		.29 .35	.25					Dual-In-Line Package	Section L	by the s
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12802	CD4020★	16	14-stage binary/ripple counter		.39	.35		7106CPL 7107CPL	40 40	3 1/2-digit LCD single-chip A/I 3 1/2-digit LED single-chip A/I			
12829	CD4021	16	8-stage static shift register	.35	.29	.19		7107CPL 7109CPL	40	12-bit A/D converter			5.39
12845	CD4023	14	Triple 3-input NAND gate		.19	.12		7217AIPI	28	4-digit LED up/down counter (7.95
12853	CD4024★	14	7-stage binary counter		.29	.25	43828	7218CIJI	28	8-digit univ. LED drive (com.	anode)	6.95	6.25
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12888 12909	CD4027★ CD4028	16 16	Dual JK master-slave flip-flop BCD-to-decimal decoder		.19	.17	51158	7556IPD	14	CMOS timer (556 replacement			.89
12925	CD4029★	16	Presettable up/down counter		.25 .45	.22	51174 51879	7660CPA 8038CCPD	8	CMOS volt converter (+5 to : Waveform generator/volt con	,		1.09
12941	CD4030	14	Quad EXCLUSIVE-OR gate		.29	.25					11101000	A	3.19
12950	CD4040★	16	12-stage binary/ripple counter		.35	.29	Mot	orola S	eri	es	Jual-In-Line Package	Vidi.	
12984	CD4042	16	Quad clocked D latch		.29	.25	25435	MC846P	14	Quad 2-input gate		\$1.95	\$1.75
12992	CD4043	16	Quad NOR R-S latch tri-state		.35	.29	24942	MC1350P	8	Video IF amp (12V operation)	65	.55
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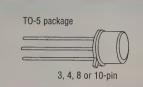
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25144	MC3340P	8	Electronic attenuator	1.29	.75	143925	LM313H	2	Reference diode		7.95	6.95
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25216	MC3479P★	16	Biphase stepper motor driver		4.49	23552	LM317LZ★	TO-92	100mA adj. pos. reg. (1.2V-37V)	49	.45	.35
25232	MC3486P	16	Quad EIA-422/423 line rec. with 3-state outputs		.59	23579	LM317T★	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	49	.45	.39
25259	MC3487P	16	Quad EIA-422 line driver with 3-state outputs		.59	23608	LM318N★	8	Precision hi-speed op amp	69	.59	.49
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25021 25064	MC14411P MC14490P	24 16	Bit rate frequency generator Hex contact bounce eliminator		5.39	23683	LM324N★	14	Low power quad op amp. (ULN4336)		.29	.25
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118586	MC145151P	28	Parallel input PLL freq. synthesizer	8.95	6.95	23771	LM336Z★		Voltage reference (2.5V)		.69	.49
25099	MC145406P	16	RS232-C/V.28 driver/rec. (CMOS)	1.59	1.39	23798	LM337K		1.5A/3 term. adj. neg. reg		3.95	3.59
108960	MC145407P	20	CMOS triple single ended transmitter		2.25		LM338K★		1.5A/adj. neg. reg. (-1.2V-37V)		.79	.69
	MC146818	24	Real time clock plus RAM				LM339AN	14	5A adj. pos. reg. (1.2V-32V) Low-power, low-offset, volt quad compara		4.49	3.95
119829	DL128D	<u> </u>	Motorola Linear/Interface IC Book	23.95	21.49		LM339N★	14	Quad comparator		.59 .29	.49
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Power bandwidth: 200 kHz	-N1 2 LS	424	144 - +144	24168	LM3900N★	14	Quad amp. (CA3401)	69	.59	.49
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23270 LM1875T T0-220/5 20-watt power audio amp		1.95	1.75	51203	78L12	TO-92	12V pos. voltage regulator (10)	0mA)25	.22	.19
23288 LM1877N-9 14 Dual power audio amp		1.95	1.49		7805K★				1.49	1.29
107140 LM1881N 8 Video synchronous separator 34260 ULN2001 16 Hi-volt./curr. darl. transistor array		2.49	2.25	51318	7812K★	T0-3/2	12V 1A pos. voltage reg. (LM3	40K-12) 1.69	1.49	1.29
32897 TDA2002V T0-220/5 8-watt audio high power amp		.69 1.75	1.55				15V 1A Positive Voltage Reg			
34278 ULN2003A★ 16 Hi-volt/curr. darl. transistor array		.49	.45	The 78	XX series c	of three	terminal voltage regulator	rs is Me	tal Can Pack TO-3 (K)	rage
34294 ULN2004A 16 Hi-volt/curr. darl. trans. array (MC1416	SP) 59	.49	.45	availal	ole with 5V	, 12V a	nd 15V fixed output voltage	ges	Aluminum	
34972 XR2206★ 16 Monolithic function generator	3.19	2.95	2.75	• Outpu	g them use	rui in a	a wide range of application of 1.0A • Internal thermal or		\times	COND
34999 XR2211 14 FSK demodulator/tone decoder	1.79	1.59	1.39				components required	1	Ç,	9
107211 LM2575T-5 TO-220/5 1A step-down volt regulator		3.25	2.49				a protection	SALE		
39562 26LS29 16 Quad tri-state sgl. end RS423 line d		1.19	.89	 Intern 	al short circ	uit curr	ent limit • Voltage range: 15	V	Bottom Viev	"
39571 26LS30 16 Dual diff RS422 party line Qd RS423 line d 39589 26LS31 16 Quad diff line driver		1.95	1.75		Product No.			1-9	10-99	100
		.69	.49	51369			15V 1A pos. voltage reg. (LM340		\$.99	\$.75
 National Semiconductor CMOS design for low power 	ine Kece	IVET			7805T★	TO-220/3	5V 1A pos voltage reg. (LM340	T-5) 39	.35	.29
Typical propagation delays: 19 ns	DOM:-IN-I						6V 1A pos. voltage reg. (LM34)		.35	.29
• Inputs won't load line when V _{cc} = 0V	IMPUTE A 1		OE MANUTE A				8V 1A pos. voltage regulator		.35	.29
Typical input hysteresis: 60 mV	BUTPUT A 3) - L	WITPUT B				12V 1A pos. voltage regulator . 15V 1A pos. voltage regulator .		.35 .35	.29
• ±0.2V sensitivity over input common mode voltage range	DUTPUT C	12 8	DOUGE				18V 1A pos. voltage regulator.		.35	.29
TRI-STATE outputs for connection to system buses Meets requirements of EIA standard RS422	IMPUTS C		DTPUT D				24V 1A pos. voltage regulator.		.35	.29
Mil-Std 883C compliant	840 -8	المهرا	HIPUTU D	Part No.	Descriptio		ee page 21 for details	1	-4	5-9
Part No. Product No. Pins Description	1-9	10-99	100	84988			kit			43.95

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Line	ar Seri	es (C	antinued)	Package (ee page	e 11)	Max	kim Line	ar S	eries (Continued) Dual-In-Line	Package A	******
Part No.	Product No.	Pins	Description	1-9	10-99	100	Part No	. Product No.	Pins	Description	1-9	10-99
	78\$40	16	1.5 amp switching reg. (1.25V-40	,	\$.89			MAX690CPA	8	Microprocessor watchdog/battery		
51422 51431			5V neg. voltage regulator (100mA	,	.29			MAVCOTODE	10	switchover/reset generator	\$4.49	\$3.95
			12V neg. voltage regulator (100m 3 12V neg. voltage regulator (500m	,	.29 .35		1	MAX691CPE	16	Microprocessor watchdog/battery switchover/reset generator	5.40	4.25
	7905T★		3 5V 1A neg. voltage regulator	,	.35			MAX695CPE	16	Microprocessor supervisory circuit		
	7912T★		3 12V 1A neg. voltage regulator		.35			MAX1232CPA		Microprocessor monitor		
-2			3 15V 1A neg. voltage regulator		.35			NINX	1/1			
	8038CCPD	14	Precision wave form generator		3.19		• Prec	ision supply -	- volta	ge monitor: 4.40V	. •	,
	LM13600N LMD182001	16 Γ 11	Dual transconductance amp 3A, 55V H-Bridge		.89 17.95		• 200r	ns reset pulse	e width	h • 200μA quiescent current MR 1	MADGAN	8 WDO
	LMD182017		3A, 55V H-Bridge			14.95				compatible manual-reset input VCC 2	1 1/AV70C	7 RESET 6 WOI
	LM18293N	16	Four channel push-pull driver		3.59					inner. 1.0 Sec. unieout		5 PFO
50825	75110	14	Dual line driver (12mA cur. switch	i) 29	.25	.12				ver-fail or low-battery warning t input • Package: 8-pin plastic dip	DIP/SO	۴
50833		16	Dual diff. line driver with 3-state of		.89					O°C • Guaranteed RESET valid at Vcc		
	75150 75154	8	Dual line driver (RS232)		.59					ower-up, power-down, and brownout c		
50884 50892	75160	16 20	Quad line receiver (9617) Octal interface bus transceiver		.79 .79	.59 .49	• A 1.2	25V threshold	detec	tor for power-fail warning, low-battery		
50921		16	Quadruple differ. line driver		1.55					er supply other than +5V		
50930	75173	16	Quadruple differ. line receiver		2.75		Appli Appli	ications: com	puters	s, controllers, intelligent instruments,		
	75174	16.	Quad diff. RS422 line dvr. with 3-state		1.19		1			oring, automotive systems	4.0	40.00
	75175	16	Quad diff. EIA 422A/423A line rec.w/3-s		1.19			. Product No. MAX706CPA	Pins 8	Description Low-cost µP supervisory circuit	1-9	
	75176 ★ 75182	8 14	Differential bus transceiver		.89	.79						
16432		14	Dual line receiver (DS8820N) Dual differ. line driver (DS8830N).		1.19		RC	A Linear	Sei	16S Distribution P	actave 1	
	75188	14	Quad line driver RS232 (LM1488)		.35	.29	12061	CA3028B	TO-5/8	Differential/cascade amplifier	Clesicon	\$3.75
23181	75189	14	Quad line rec. RS232 (LM1489N).	,	.35	.29	12079	CA3046N	14	NPN transistor array (ULN2046)		
	75451	8	Dual peripheral AND driver		.29	.19	12116	CA3080E	8	Op transconductance amp		
	75452	8	Dual peripheral NAND driver		.39	.35	12124	CA3081N	16	Com. emitter NPN array (ULN2081)		
	75453 75491	8 14	Dual peripheral OR driver		.45	.39	12159	CA3086N	14	Transistor array NPN (ULN2086)		
51131		14	Quad seg. driver for LED readout. Hex digit driver		1.09	.99	12183	CA3130E	8	CMOS op amp.		
SPENSOR			Tiox digit diffol				12204 12239	CA3140E CA3161E	8 16	Bi-MOS op amp.		
Line	ar Seri	es		Unio Printing		1111111	12247	CA3162E	16	BCD to 7-seg. decoder driver Dual slope & rate analog/dig. convert		
Part No.	Product No.	Pins	Description		1-9	10-99		CA3401N	14	Quad amp (LM3900N)		
	TL084CD	14	Gen. purpose BIFET quad op amp.			\$.65	700	On Inter				
	MAX232CWE	16	+5V powered, dual RS232 transm			1.75	ZUU	Series	MIC	roprocessors turning	Day Fi	Mille
	LM324D LM339D	14 14	Low power quad op amp			.39	35561	Z80	40	2.5 CPU (MK3880N/780C)	\$1.39	\$1.19
	LM386M-1	8	Low voltage audio amp 250W/6V		loseout	.15 .19		Z80-CTC	28	2.5 Counter timer circuit (MK3882)		
	CLC430AJE	8	Quad, wideband, 100MHz, monoli			3.59	35588	Z80-PI0	40	2.5 Parallel I/O interface controller		
86799	LM555CM	8	Timer (NE555D)			.29	35596	Z80A★	40	4 CPU (MK3880N-4/780C-1)		
	LM556D	14	Dual 555 timer		59	.29	35609 35625	Z80A-CTC Z80A-DART	28 40	4 Counter timer circuit (MK3882-4)4 Dual asynchronous rec./transmitter		
	LM741D LM1458D	8 8	Compensated op amp			.15	35641		40	4 Parallel I/O interf. contr. (MK3881-		
	LM1488D	14	Quad line driver RS232			.15		Z80A-SIO/0	40	4 Serial I/O (TxCB & RxCB bond.) MK3	884-4.2.19	1.95
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		_		Line Packag		THE STATE OF	118391		40	8 CPU (Z0840008PSC)		1.25
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106147	MAX232CWE	16	+5V powered, dual RS232	7		1100	32803	TCM5089N	16	Integrated tone dialer chip	\$3.95	\$3.59
		(SOIC)	transmitter/receiver		2.09	1.75	26083	MM5314N	24	6-digit LED/incandes. readout clock chip		9.95
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38885	2148HN-3	18 18	1K x 4 1K x 4	55ns	
40731	3341PC	16	64 x 4	64 word x 4-bit FIFO serial	
25911	MK48Z02B-15	24	2K x 8	150ns (16K) zero-power RAM	9.95
42198	5101★	22	256 x 4	450ns (CMOS)	
42788 42796	6116P-1 6116P-2	24 24	2K x 8 2K x 8	100ns (16KB) CMOS	
42809	6116P-3★	24	2K x 8	150ns (16KB) CMOS	
42737	6116LP-1	24	2K x 8	100ns (16KB) LP CMOS	
42745	6116LP-2	24	2K x 8	120ns (16KB) LP CMOS	
42753	6116LP-3★	24	2K x 8	150ns (16KB) LP CMOS	
42921 42930	6264P-10 6264P-12★	28 28	8K x 8 8K x 8	100ns (64KB) CMOS 120ns (64KB) CMOS	
85121	6264LP-70	28	8K x 8	70ns (64KB) LP CMOS	
42884	6264LP-10	28	8K x 8	100ns (64KB) LP CMOS	2.75
42892	6264LP-12★	28	8K x 8	120ns (64KB) LP CMOS	
43238 41970	6514 43256-10L	18 28	1K x 4 32K x 8	350ns CMOS (UPD444C) 100ns low power (NEC)	
41988	43256-10L★	28	32K x 8	120ns low power (NEC)	
82472	62256LP-70	28	32K x 8	70ns low power CMOS	4.69
42833	62256LP-10*		32K x 8	100ns low power CMOS	
42850	62256LP-12★		32K x 8 128K x 8	120ns low power CMOS	
	628128LP-70 628128LP-85★		128K x 8	70ns low power CMOS85ns low power CMOS	
00040	DI 1 CCD	02	Matauri C-	ot Ctatia DAM Data Book	0.05

Dynamic and Video RAMs

41321	4116-12	16	16K x 1	120ns (MM5290N-1)	\$.89
41339	4116-15★	16	16K x 1	150ns (MB8116H)	69
41638	4164-120	16	64K x 1	120ns (HY5164S-12)	.89
41662	4164-150	16	64K x 1	150ns (MCM6665-15)	.59
33620	TMS4416-12	18	16K x 4	120ns (MB81416-12)	.15
33638	TMS4416-15	18	16K v 4	150ns (48416-15)	12



93243 DL156D

E/S	A CONTRACTOR OF THE PARTY OF TH	1 .			-
Dyn	amic an	d V	ideo RA	Ms (Continued)	
Part No.	Product No.	Pins	Description		Price
41435	41256-60	16	256K x 1	60ns (M5M4256P-60)	.\$1.49
41443	41256-80	16	256K x 1	80ns (HM50256-80)	. 1.29
41371	41256-100	16	256K x 1	100ns (HY53C256LS-10)	1.29
41398	41256-120	16	256K x 1	120ns (MB81256-12)	1.19
41427	41256-150	16	256K x 1	150ns (P21256-15)	1.09
41540	41264-12	24	64K x 4	120ns video RAM .3"W	2.95
41611	41464-80	18	64K x 4	80ns (HM50464-80) Closeout	1.75
41574	41464-10	18	64K x 4	100ns (M5M4416-10)	1.69
41582	41464-12	18	64K x 4	120ns (MB81464-12)	. 1.39
42243	511000P-70	18	1M x 1	70ns (P21010-70)	4.25
42251	511000P-80	18	1M x 1	80ns (MB811000-80)	3.95
42219	511000P-10	18	1M x 1	100ns (M5M4C1000-10)	3.75
105460	514256P-60	20	256K x 4	60ns (HY514256P-60)	3.95
93374	514256P-70	20	256K x 4	70ns (TC514256P-70)	3.75
42315	514256P-80	20	256K x 4	80ns (UPD424256-80)	3.59
42294	514256P-10	20	256K x 4	100ns (TMS44C256-10)	3.39
128688	HM514260	SOJ	256K x 16	70ns	5.95
118228	524256-80	ZIP	256K x 4	80ns (42274V-80)	7.95

DIP to SIMM Converter Card

Soldering required

· Weight: .03 lbs. Part No. Description



125305 (3) Dual 256K/1M x 4 DIPs to 30-pin SIM SIMM SIPP DIMM and CELP

M	converter	card	Nosaout	\$1.95
-	-	CONTRACTOR OF TAXABLE PARTY.		

Price

1	30729	JEED07208	72	2M x 32	60ns SIMM	EDO module (8MB).	\$33.95
1	30711	JEED07216	72	4M x 32	60ns SIMM	EDO module (16MB)	58.95
7	5133	P361000-XX-6	72	1M x 36		module (4MB)	
7	5117	P361000-XX-7	72	1M x 36	70ns SIMM	module (4MB)	25.95
7	5096	P362000-XX-6	72	2M x 36	60ns SIMM	module (8MB)	49.95
7	5213	P362000-XX-7	72	2M x 36	70ns SIMM	module (8MB)	48.95
7	5184	P364000-XX-6	72	4M x 36	60ns SIMM	module (16MB)	69.95
7	5168	P364000-XX-7	72	4M x 36	70ns SIMM	module (16MB)	68.95
4	1515	41256A9B-70	30	256K x 9	70ns SIMM	module	6.49
4	1523	41256A9B-80	30	256K x 9	80ns SIMM	module	6.25
4	1742	421000A9B-60	30	1M x 9	60ns SIMM	module	9.95
4	1751	421000A9B-70	30	1M x 9	70ns SIMM	module	8.95
4	1769	421000A9B-80	30	1M x 9	80ns SIMM	module	8.75
4	1700	421000A9A-70	30	1M x 9	70ns SIPP r	module	9.95
4	1718	421000A9A-80	30	1M x 9	80ns SIPP r	module	9.75
5	3698	94000S-60	30	4M x 9	60ns SIMM	module	26.95
	3701	94000S-70	30	4M x 9	70ns SIMM	module	25.95
5	3719	94000S-80	30	4M × 9	80ns SIMM	module	24.95
1	32695	CELP512KB	160	128K x 32	15ns CELP	module (512KB)	25.95

SIPP to SIMM Converter Card

· Allows use of 1 SIPP module in a standard 30-pin SIMM slot • Weight: .02 lbs.

 Size: 3.5"L x 1.6"W (optional) Part No. Description

93382 30-pin SIPP to 30-pin SIMM converter card.

SIMM to SIMM Converter Cards

 P/Ns 130198/130201; 72-pin SIMM must match the

total memory of 30-pin SIMMs Do not mix memory size or speed • Weight: 0.2 lbs.





Part No.	Product No.	Description	Front/Back 1-4	5-9
130083	JE1096	(2) 72-pin SIMMs to 72-pin SIMM	Both \$17.95	\$15.95
133170	JE1097	(8) 30-pin SIMMs to 72-pin SIMM	Both11.95	9.95
130198	JE1095	(1) 72-pin, (4) 30-pin SIMMs to		
		72-pin SIMM	B17.95	15.95
130201	JE1094	(1) 72-pin, (4) 30-pin SIMMs to		
CONT.		72-pin SIMM	F17.95	15.95



Analog Devices Digital Signal Processors

The ADSP-2100 Family processors are single-chip nicro-computers optimized for digital signal processing (DSP) and other high speed numeric pro-cessing applications. The ADSP-21xx processors are all built upon a common core, the ADSP-2100. each processor combines the core DSP architecure-computation units, data address generators, and program sequencer—with differentiating



eatures such as on-chip program and data memory RAM, a programmable timer, and one or two serial ports, and on the ADSP-2111, a host interface port.

Part No.	Product No.	Pins	Description		1-9	10-49
142308	ADSP-2101KP66	PLCC/68	DSP 66MHz	2K x 24	2 serial ports \$29.95	\$24.95
142316	ADSP-2101KP80	PLCC/68	DSP 80MHz	2K x 24	2 serial ports34.95	29.95
142324	ADSP-2105KP55	PLCC/68	DSP 55MHz	1K x 24	1 serial port19.95	16.95
142332	ADSP-2105KP80	PLCC/68	DSP 80MHz	1K x 24	1 serial port21.95	18.95
142341	ADSP-2115KP66	PLCC/68	DSP 66MHz	1K x 24	2 serial ports21.95	18.95
					2 serial ports22.95	
					2 serial ports 59.95	

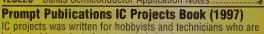
Individual spec sheets available for all above devices (\$1.00 each)

Da	las Semi	conc	luctor Chips Dealth-Line Package	intititi
13339	9 DS1202	8	Serial timekeeping chip (24 x 8 RAM)\$4.2	25 \$3.95
11419	B DS1210	8	Nonvolatile controller chip3.9	3.59
11421	9 DS1213C	28	SmartSocket 64K/256K bit12.9	5 11.95
13340	1 DS1215	16	Phantom time chipCloseou	6.25
13341	DS1216C	28	Smartwatch/RAM 64K/256K22.5	5 20.95
13342	B DS1216D	32	Smartwatch/RAM 256K/1M29.9	5 24.95
11160	B DS1216E	28	SmartWatch/ROM 64K/256K21.9	19.95
11426	DS1220Y-150	24	16K nonvol. SRAM 10%pwr, 4.25V WP9.9	5 67.95
11427	B DS1225AB-150	28	64K nonvol. SRAM 5%pwr, 4.62V WP14.9	12.95
11428	5 DS1225AD-150	28	64K nonvol. SRAM 10%pwr, 4.37V WP14.9	5 12.95
11430	7 DS1225Y-200	28	64K nonvol. SRAM 10%pwr, 4.25V WP16.9	14.95
14209	2 DS1230Y-85	28	256K nonvol. SRAM 10%pwr, 4.37V WP24.9	5 21.95
11432	3 DS1230Y-150	28	256K nonvol. SRAM 10%pwr, 4.37V WP22.9	5 19.95
11433	DS1232	8	Micromonitor chip2.9	5 2.75
13344	DS1286	28	Watchdog timekeeper (50-Byte RAM)16.9	5 14.95
76646	DS1287	24	Real time clock with RAM (MC146818A)6.9	6.25
11436	5 DS1287A	24	Real time clock with RAM & clear6.9	5.95
114374	DS1387	24	RAMified real time clock 4Kx88.9	6.95
11438	2 DS1620	8	Digital thermometer and thermostat5.9	5.39
	DS2107AS	SOIC/16	SCSI/SCSI-II terminator Closeou	1.00
	2 DS12887	24	Real time clock chip7.9	5 6.95
11440	B DS80C320-MCG	a 40	High speed micro 25MHz13.9	5 12.95
	Individual s	pec shee	ets available for all above devices (\$1.00 each)	

Dallas Semiconductors Application Note Book (1996)

Contains information for the DS 1212, 1220, 1225, 1230, 1620, and other Dallas Semiconductor parts. Also covers time-keeping, nonvolatile memories, silicon timed circuits, system extension, telecom, and microcontrollers. (487 pages) • Size: 7" x 9" • Weight: 1.1 lbs.

123220 Dallas Semiconductor Application Notes. \$19.95



interested in projects for integrated circuits—projects that you will be able to breadboard quickly and test easily. User friendly and fun, all the projects in this book employ integrated circuits and transistors (224 pages) • Size: 6.0"L x 9.0"W • Weight: 0.7 lbs.

Part No. Description 143271 IC Projects Book.....



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Epson Real Time Clock Modules

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RTC58321B Specifications

- Frequency stability: ±50ppm
- Built-in 32.768kHz quartz crystal
- Addressable counter start, stop, and reset function
- 12 or 24-hour format Automatic leap year setting
- Microprocessor compatible 4-bit data bus
 Standard 16-pin DIP package

Part No.	Product No.	Description 1-9	10-24
29591	RTC58321B	16-pin clock module\$7.49	\$6.75
29091	M1000021D	10-pill Glock filodule	Ф 0.

RTC72421B Specifications



- Frequency stability: ±50ppm
 The built-in quartz crystal makes board design easy
- Direct bus-compatibility (120 nsec access time)
 Interrupt masking
- 30 seconds error adjustment function 18-pin dual in-line plastic package

Part No.	Product No.	Description	1-9	10-24
95530	RTC72421B	18-pin clock module	\$6.95	\$6.25
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HOLTER	CAP EII	COU	ers/Decoders	Qualettis Litto ratingge	Hillin	
Part No.	Product No.	Pins	Description	1	-9 10	-24
123730	HT12E	18	Encoder 12-bit	\$1.0	69 \$1.	.49
123748	HT12D	18	Decoder 8-bit address / 4	-bit data1.6	69 1.	.49
123772	HT12F	18	Decoder 12-bit address		69 1.	.39
126594	HT-640	24	Encoder 10-bit address / 8-	-bit address or data 2.9	35 2.	.75
126607	HT-648L	24	Decoder 10-bit address /	8-bit latch data2.9	95 2.	.75

Holtek Product Guide CD-ROM (1997)

Features product data sheets for Holtek's entire line of semiconductors in Adobe Acrobat PDF files.

• Size: 5.0" x 5.0" • Weight: .06 lbs.



\$11.95 \$10.95

+5V 14 Connect to +5V DC D7 13 LCD Data Pin 7

06 12 LCD Data Pin 6 05 11 LCD Data Pin 5

OSC1 56 Oscillator Connection

+5V 14 Connect to +5V DC

DA 12 Data VO Pin 6

\$15.95 \$13.95 124871

Part No. Description Holtek Data/Product CD-ROM12.95 11.49 146122

ē lab E-Lab Digital Interface ICs



Stepper Motor Driver

Part No. Product No. Pins Description	1-9 10-2
stepper motor. • weight05 lbs.	Single-Step on Falling Edge in 'STEP' mode 9 1990 1990 1990 1 = 'STEP' mode, 0 = 'RUN' mode
stepper motor. • Weight: .05 lbs.	I = Normal Stepping 0 = Half-Stepping 6 - Half-Stepping 6 - Half-Stepping A - tt Speed Control (LSB)
a logic level input byte to a	1 = Clockwise, 0 = Counter-Clockwise 7 Direction # 13 Speed Control
a logic lovel immed basts to a	0 - Disable Motor Drivers 6 - Free Syle C 13 Speed Control (MSB)
driver is designed to interface	Digital Ground 5 CHO +5V DC
Automorto Anatas Alta to take C	Connect to +5V DC 4 -+5V OSC2
This unipolar stepper motor	Connect to +5V DC 3 - +5V OSCI 16 Oscillator Connection

Stepper motor driver

Connect to +5V DC 4

LCD Enable Line 4

18 Text LCD Serial Controller

This Serial LCD interface IC is designed to conveniently control text based LCD modules via a simple two or three wire link. It allows both engineers and hobbyists alike to easily incorporate a LCD module into their design using a minimal amount of I/O lines.

EDE1200

141532

• weight:	.vo ibs.				
Part No.	Product No.	Pins	Description	1-9	10-24
141559	EDE700	18	Serial LCD	interface\$19.95	\$17.95

Serial to Parallel Printer Interface

Designed to allow printing on parallelinterface printers via microcontrollers and Comment to +5V DE 3 BASIC Stamps. It allows such devices the Coronadio +5V OC 45 +5V ability to create hard-copy output of data or Minim Data o 450 D7 13 Printer Data 7 status without the intervention of a PC and Print Data 2 4 without the I/O or timing demands of the printer's parallel interface. • Weight: .05 lbs. Part No. Product No. Pins Description 10-24 EDE1400 18 Serial to parallel printer interface ... \$15.95 \$13.95

Parallel/Serial Transceiver

ame Da

This parallel / serial transceiver IC is 0=Local, 1=Host 3 Meda designed to conveniently convert 8-bit parallel nect to +5V DC 4 data into serial format and vice-versa. Ideal for logging data to a PC, controlling hardware via the PC serial port, communicating 8-bit data via a serial connection, and expanding I/O capabili-

			ad stamps. • Weight: .05 lbs
Part No.	Product No.	Pins	Description
141541	EDE300	18	Parallel/serial transceiver

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 Includes right angle female connector
 Use with MicroPerf board 139256: For all 18-pin PICs (16C52, 54, 56, 58, 554, 556, 558, 61, 620, 621, 622

71, 710, 711, 715, 83, 84)
For all 28-nin PICs (16055, 57, 28SP, 62A, 63SP, 66SP, 72SP, 73ASP, 76SP

171170.	101 all 20-pill 1 103 (10033, 37, 2	100F, 02A, 000F, 000F,	120F, 13A	or, 100r)
Part No.	Description	Wt. (lbs.)	1-4	5-9
139256	Micro 1 processor board (for	18-pin) .07	\$17.95	\$15.95
141170	Micro 2 processor board (for	28-pin) .08	17.95	15.95
for all and a		41 1 1/0 1	1.6	

 Includes right angle male connector
 Microbus I/O can be used for external control • Silk-screen grid reference on both sides of board • Use with MicroPlug board

139272 MicroPerf prototype board 139264: Includes all parts for Micro 1 processor board (P/N 139256 - above)

141188: Includes all parts for Micro 2 processor board (P/N 141170 - above) Parts kit for Micro 1 \$8.95

141188 Parts kit for Micro 2 8.95

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 Directly cascadable for longer durations

Zero-power message storage – eliminates battery backup circuits

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 P/N 141647: 3VDC @ 30mA

1 μA standby current (typical)
 Fully addressable to handle multiple messages

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Product No. Description Part No. 10-49 50+ 141671 ISD1110P Voice record (10 sec.).....\$7.95 \$5.95 ISD1416P Voice record (16 sec.)......9.95 141663 8.95 6.95 141655 12.95 14 95 141647 ISD33240P Voice record (240 sec.).....27.95 107334★ ISD1420P Voice record/playback (20 sec.)......8.95 7.95 6.95 Voice record/playback (60 sec.).....15.95 **120643** ISD2560 14.49 13.95 ISD2590 Voice record/playback (90 sec.).....16.95 120660 15.49 14.95

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Applications: Language translations, telecommunications, clocks, teaching aids and automotive

The DT1050 is a standard DIGITALKER™ Chip Set encoded with 137 separate and useful words, 2 tones and 5 different silence durations. • Weight: 0.1 lbs.

16491 includes: • (1) 74LS04 (14-pin)

• (1) Speech Processor Chip. MM54104N (40-pin) • Master Word List (2) Speech ROMs, MM52164SSR1 (24-pin) and MM52164SSR2 (24-pin)

· The recommended schematic diagram is included on the application sheet **16504** includes: • (1) 74LS04 (14-pin)

(2) Speech ROMs, MM52164SSR5 (24-pin) and MM52164SSR6 (24-pin)

Part No.	Product No.	Description 1-9	10-24
16491★	DT1050	Digitalker™ (4 chips)\$29.95	\$26.95
16504	DT1057	Vocabulary expansion (3 chips)19.95	17.95
26147	MM54104N	Speech chip	11.49
14592	CY4	Required 4MHz crystal1.05	.85

0.5 lbs

Digital Voice Module

• 1M DRAM on board • Plays 16 messages • Selectable 16K/32K/44K bps sampling rate • 0.5W audio amp on board with volume control . All components soldered on board • Power requirements: 6-12VDC, 200mA Part No. Product No. Description Weight

Digital voice module



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\$79.95



DVM58D

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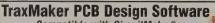
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Part No.	Description
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- Compatible with CircuitMaker® Easy to learn and operate
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139301 Virtual PCB design software	1.4	\$299.95

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- · Supports 16 layers with multiple copper pours 142981: WinDRAFT Schematics Software
- Makes sophisticated electrical rule checks
 Warns when pins are unconnected
- · Library contains over 12,000 electronic parts, or create and edit your own

Part No.	Description	Wt. (lbs.)	Price
142973	WinBOARD Electronic PCB CAD	1.6	\$149.95
142981	WinDRAFT Electronic Schematic CAD	1.6	149.95
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- 132679 Optional adapters available (see below)
 Software upgradeable for future PICs · Includes DOS programming software and PIC macro assembler compatible with
- Microchip mnemonics and Parallax "8051" style mnemonics

 Requires two 9V batteries or 	AC adapter (not included	d, P/N 101258 — pg 63) &
PC compatible parallel port	 One-year warranty 	, 10 ,

Part No.	Description	Wt. (lbs.)	Price
132679	EPIC pocket PIC programmer	0.20	\$59.95
136397	8/18-pin ZIF adapter	0.07	34.95
146341	8-pin SOIC adapter	0.05	49.95
146051	18-pin SOIC adapter	0.06	49.95
132610	40/28-pin ZIF adapter	0.10	29.95
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136645	Easy PIC'n Data Book	152	1.0	29.95



				ELUOIN	DAW	1/0		
Part No.	Product No.	Pins	Conf.	MHz Range	Bytes	Bytes	Lines 1-9	10-49
145040	PIC12C508-04/P	8	OTP	DC - 4MHz	512 x 12	25B	5\$1.95	\$1.75
145058	PIC12C509/JW	8	EPROM	DC - 4MHz	1K x 12	41B	513.95	12.95
144258	PIC12C509-04/P	8	OTP	DC - 4MHz	1K x 12	41B	52.19	1.95
128338	PIC16C54A-04/P	18	OTP	DC - 4MHz	512 x 12	25B	123.95	3.59
134164	PIC16C55-RC/P	28	OTP	DC - 20MHz	512 x 12	25B	204.49	3.95
134172	PIC16C56-RC/P	18	OTP	DC - 20MHz	1K x 12	25B	124.49	3.95
128354	PIC16C57-XT/P	28	OTP 1	00k - 4MHz	2K x 12	72B	20 5.95	5.39
134181	PIC16C57/JW	28	EPROM	DC - 20MHz	2K x 12	72B	2018.95	16.95
128389	PIC16C61-04/P	18	OTP	DC - 4MHz	1K x 14	36B	13 5.95	5.39
134210	PIC16C73-04/SP	28	OTP	DC - 4MHz	4K x 14	192B	229.95	8.95
145091	PIC16C74A/JW	40	EPROM	DC - 20MHz	14K x 14	192x8	3321.95	19.95
145103	PIC16C74A-04/P	40	OTP	DC - 4MHz	4K x 14	192x8	33 9.95	8.95
	PIC16C84-04/P	18	OTP	DC - 4MHz	1K x 14	36B	13 6.95	6.25
144266	PIC16C554-04/P	18	OTP	DC - 4MHz	512 x 14	80B	13 3.95	3.59
144899	PIC16C558/JW	18	EPROM	DC - 20MHz	2K x 14	128B	13 14.95	13.95
145066	PIC16C558-04/P	18	OTP	DC - 4MHz	2K x 14	128B	134.49	3.95
145074	PIC16C622/JW	18	EPROM	DC - 20MHz	2K x 14	128B	13 15.95	14.95
145082	PIC16C622-04/P	18	OTP	DC - 4MHz	2K x 14	128B	135.49	4.95
145138	PIC16C711/JW	18	EPROM	DC - 20MHz	1K x 14	68B	1314.95	13.95
	PIC16C711-04/P	18	OTP	DC - 4MHz	1K x 14	68B	13 5.95	5.39
145111	PIC16F84-04/P	18	OTP	DC - 4MHz	1K x 14	68B	13 6.95	6.25
145120	PIC16F84-10/P	18	OTP	DC - 4MHz	1K x 14	68B	13 7.95	6.95

PIC Development Kits

The kit includes a PC-hosted system which provides an assembly for code development, a simulator, samples and programmer board. Includes RS232 cable. Documentation included in README file.



PICSTART Lite16C (P/N 128531) for PIC: 16C62, 16C64, 16C65, 16C74 PICSTART Lite16B (P/N 128522) for PIC: 16C54A, 16C57, 16C58A, 16C61, 16C620 Requires 9V @ 500mA (recommend wall transformer P/N 100175 - pg 62)

Part No.	Description		Wt. (lbs.)	Price
128531	Development kit 16C		1.0	\$119.95
128522	Development kit 16B		0.3	109.95
	aniana (F	01		

micro Engineering Rabs

"PICProto" Prototyping Boards

· Pre-wired to hold your favorite PIC, 5 volt regulators, capacitors and crystals, RC or ceramic resonators • One-year warranty

Solder mask on both sides of board . Location for DE9-DB25 RS232 style connector Includes documentation sheet showing suggested parts, placement and a schematic

 For 28-pin PIC16C62, 63, 72 and 73 Part No. Description Size (L" x W" 132636 PICProto 3 3.0 x 3.0 0.1. \$14.95 \$13.49 For 8-pin PIC12C508 or 509 Solder mask 136400 PICProto 8 2.0 x 1.2 .9.95 8.95 For 28-pin PIC14000 145349 PICProto 14 3.0 x 3.0 .14.95 13.49 • For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 556, 558, 61, 620, 621,

622, 71, 710, 711, 715, 83 & 84

132644 PICProto 18 3.0 x 1.5 8.95 For both 18-pin PICs including PIC16C52, 54, 56, 58, 554, 556, 558, 61, 620,

621, 622, 71, 710, 711, 715, 83 & 84 and 28-pin PIC16C55, 57

 Accepts either standard 0.6"W 28-pin device or 0.3"W skinny DIP 132628 PICProto Dual 18/28 3.0 x 3.0

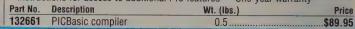
.14.95 13.49 For 40-pin PIC16C64, 65 and 74 132652 PICProto 64 4.0 x 3.0 .16.95 14.95

micro Engineering Rabs PICBasic Compiler

Write PIC programs in BASIC! Converts BASIC programs into hex or binary files for PIC microcontrollers. Runs on PC or compatibles • For PIC16C6x, 62x, 7x, 8x

 Compatible with most PIC programmers including P/N 132679 (left) • Basic Stamp 1 compatible instruction set

· Assembly language instructions may be mixed with BASIC instructions for access to additional PIC features • One-year warranty





\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or tess



127693

80C52-Basic Microcontroller

The 80C52-Basic chip is a custom-masked 80C52 microcontroller with a full-featured 8K-byte ROM-resident Basic-52 interpreter.

- · On-chip oscillator and clock circuit 125647

- Full BASIC interpreter in ROM on a single chip
- · "Stand-alone" software development
- Interrupts can be handled by BASIC or Assembly Language

Part No. Description 10-49 125647 CPU 8-bit CMOS w/ basic interpr.\$19.95 \$17.95

The 8052 Microcontroller Idea Book (1994)

- · Circuits, programs and applications featuring the 8052-Basic single chip computer 277 pages
- Size: 7.8" x 10.5"
 Weight: 1.6 lbs. Part No. Description

126375 Microcontroller Idea Book\$31.95 \$28.95 Basic-52 Reference Book (1989)

- Complete reference to programming 80C52-Basic and 8052AH-Basic microcontrollers • 160 pages
- BASIC-52 Size: 8.2" x 10.6"
 Weight: 1.0 lb. Part No. Description 126252 Basic-52 Programm. Ref......\$24.95 \$22.49

Software Disk for Basic-52 Book

- 3.5" disk of circuit examples for P/N 126252
- · Weight: 1.0 lb.

Part No. Description 126295 Basic-52 3.5" disk......\$11.95 \$10.49

SOLUTIONS CUBED RAM Pack B Module

The RAM Pack B module allows addressable access to 8Kx8 bytes of RAM. An autobaud detect function supports communication at 1200-19200 baud rates without the use of hardware jumpers. A software



Carcuste, Programe & App Securing the 8003-BASH Single-chip Computer

command allows the RAM Pack B to be expanded to handle 32Kx8 RAM. An additional FIFO (first-in-first-out) buffer mode has been included. This function allows sequential storage of data in RAM without the need to address the RAM. RAM comes socketed for easy replacement with NVRAM or 32Kx8 RAM.

vveign	t04 IDS.	
Part No.	Description	Price
143811	6-pin RAM Pack B module.	\$29.95

SOLUTIONS CUBED **Motor Mind B Module**

Motor control is simplified to a one or two line serial communication stream. DC motors with operating voltages as great as 30VDC and continuous currents of 2A can be controlled. An on board frequency counter has a range of 0-65,528Hz. Motor speed (254 steps) and direction



Price

can be controlled. Motors with tachometers or encoders may make use of the automated speed control function.

· Weight: .03 lbs.

Part No. Description 143802 9-pin Motor Mind B module\$29.95

PARALLAX & Basic Stamps

Basic Stamps are small computers using a variation of Basic, called PBASIC to control execution of many applications. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines which can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Each allows you to store data in the EEPROM before downloading a BASIC program. Thousands of Basic Stamps



(non-volatile), a resonator and 5V regulator

Embedded BASIC plus instruction sets

Requires P/N 127714 (right) for operation

Specifications:

See page 28 for Serial LCD Module

BS1-IC BS2-IC **EEPROM** 256 bytes 2048 bytes RAM 14 bytes 26 bytes Max. prog. length 80 instructions 500 instructions Clock speed 4MHz 20MHz Program speed 2000/sec. 4000/sec Max I/O speed 2400 baud 50K byte Package 14-pin SIP 24-pin DIP PC Interface Parallel Serial 1.4"L x 0.4"W 1.2"L x 0.6"W

140089: Basic Stamp® Rev. D Kit

Includes our original Basic Stamp Rev. D. manual, software and programming cable.

140062: Basic Stamp®1 Starter Kit

Design your project today using the Basic Stamp 1. Includes a BS1-IC, carrier board, manual, software and programming cable.

140071: Basic Stamp®2 Starter Kit

Take advantage of all the cool features of the Basic Stamp 2. Includes the BS2-IC, carrier board, manual, software and programming cable.

Part No.	Description	Wt. (lbs.)	Price
127693	Basic stamp BS1-IC	0.01	.\$34.95
130892	Basic stamp BS2-IC	0.01	49.95
140089	Basic stamp Rev. D kit	1.0	79.95
140062	Basic stamp 1 starter kit	1.0	99.95
140071	Basic stamp 2 starter kit	1.9	.149.95

SOLUTIONS CUBED Pocket Watch B Module

The Pocket Watch B module is an enhanced. pin for pin replacement of the Solutions Cubed Pocket Watch. It contains a real time clock, a calendar, and advanced timing features. The realtime clock module keeps



NEW

track of seconds, minutes, hours, days, months, and years. Adjustments for leap year are automatically performed. A year 2000 fix allows for worry free use into the next millennium.

- For use with P/N 130892 (above)
- Leap year compensation
 Year 2000 compliant
- . Easy to use 1 or 2 wire interface
- Four types of user configurable alarms
- Externally accessible, precision timebase
- Standard TTL levels · Easy to use SIP package Size: 1.0"L x 1.0"W • Wt.: .05 lbs. • One-year warranty

Part No.	Description		- · · · · · · · · · · · · · · · · · · ·	Price
145630	Pocket Water	ch B module		\$24 95

PARALLAX & Basic Stamp **Programming Package**

This package includes everything you need to program your stamps: software, cables, documentation, application notes and free tech support!

 Requires IBM PC or compatible, 3.5" floppy drive, DOS 2.0+, and a parallel port

Basic stamp module (P/N 127693 and/or 130892) not included

programs your STAMPS! Recommend purchasing P/N 127706 and/or 130921 (below) • Weight: 3.0 lbs.

Part No. Description Basic stamp prog. pkg. SALE 127714 \$89.95

PARALLAX 7 Stamp Module **Carrier Boards**

Optional boards for B\$1-IC and BS2-IC

· Easy use of stamp with prototyping area, 9-volt battery clips, I/O header, reset button, and programming connector



Easily

127706 shown with 127693 (127693 not included)

P/N's 127693 and 130892 not included • Wt.: 0.1 lbs. Size: 127706: 3.5"L x 2.0"W. 130921: 3.0"L x 2.6"W

Part No.	Description Price	
127706	BS1-IC carrier board\$17.95	
130921	BS2-IC carrier board	

PARALLAX & PIC16CXX

Programmer Pack

Programs, reads & verifies PIC16CXX devices!

- Supports PICs: 54, 55, 56, 57, 58, 620, 621, 622, 61, 62*, 63*, 64*, 65*, 71, 72*, 73*, 74* and 84
- Requires 40-pin ZIF

adapter (below)



VALU

· As new PICs are introduced, the programmer can be upgraded to support them · Requires IBM PC or compatible

with parallel port, DOS 2.0 or better Includes programmer, 8051-like assembler,

- software simulator and application notes
- Power supply and cables not included, recommend P/N 101258 (pg 63)
- All documentation provided on disk to print, you must have a laser printer or inkjet printer and Windows® 3.1 or newer

Weight: 0.3 lbs. • One-year warranty

Part No.	Description			Price
132898	PIC16CXX	programmer	pack	\$119.95
133911	40-pin ZIF	adapter		59.95

Basic Stamp Data Book (1997)

Newnes Publishing This book covers both the hardware and the software sides of the Parallax BASIC Stamp I and II microprocessor operation and design. It walks you through applications suitable for designers as well as the home hobbyist. (284 pages)

Size: 6.0"L x 9.0"W

· Weight: 0.9 lbs.

Part No. Description 143651 Basic Stamp Data Book... .\$34.95







• Assorted values, types and sizes • Perfect for prototyping and educational projects • Use our 20 drawer cabinet to store your components, P/N 81701 (pg 32)















135271

	17881	18075	135458	
		Capacitors		
Part No.	Product No.	Description	Wt. (lbs.) 1-9	10-24
17857	GB100★	200 asst. ceramic disc capacitors	0.1\$3.95	\$3.49
135335	GB100LB	1 lb. (985 pcs.) asst. ceramic disc ca	ps 1.0 9.95	8.95
17881	GB101★	100 asst. mylar capacitors	0.24.95	4.49
135458	GB101LB	1 lb. (310 pcs.) asst. mylar capacitors	1.09.95	8.95
17911	GB102★	100 asst. electrolytic capacitors (radial, axial, snap)	0.44.95	5 4.49
135394	GB102LB	3 lbs. (390 pcs.) asst. electrolytic cap (radial, axial, snap)	s 3.0 12.9 5	11.49
17945	GB103	50 asst. tantalum capacitors (dipped epoxy and solid tubular)	.024.95	5 4.49
		Diodes and Transistors		
Part No.	Product No.	Description	Wt. (lbs.) 1-9	10-24
17961	GB107★	200 asst. diodes (zener, switching, silicon)	0.1\$4.95	\$4.49
135440	GB107LB	1 lb. (1650 pcs.) asst. diodes (zener, switching, silicon)	1.024.95	22.49

Part No.	Product No.	Description W	/t. (lbs.) 1-9	10-24
17961	GB107★	200 asst. diodes (zener, switching, silicon)	0.1\$4.95	\$4.49
35440	GB107LB	1 lb. (1650 pcs.) asst. diodes		
		(zener, switching, silicon)	1.024.95	22.49
18171	GB127★	100 asst. transistors (NPN, PNP, power)	0.2 4.95	4.49
		Potentiometers and Knob	c	

		· otomonotoro ana mio				
Part No.	Product No.	Description	Wt. (lbs.)	1-9	10-24	
18075	GB113★	100 asst. 1/10 to 1/8W trimmer pots				
		(100 to 2MΩ values)	.04\$	3.95	\$3.49	
18278	GB174	100 asst. 1/4W single turn pots				
		(100 to 5MΩ values)	0.2	5.95	5.39	
135407	GB174LB	1 lb. (295 pcs.) 1/4W single turn pots	3			
		(100 to 5MΩ asst. values)	1.01	2.95	11.49	
78967	GB135	50 asst. 1/2W single turn pots				
		(63P series) (100 to $2M\Omega/3/8"$ Sq.)	0.1	6.95	6.25	
141946	GB144	20 asst. heavy duty industrial knobs	0.6	6.95	6.25	
Interrated Circuits and Crystals/Oscillators						

	Integrated Circuits and Crystals/Oscillators						
Part No.	Product No.	Description	Vt. (lbs.) 1-9	10-24			
17996	GB108★	50 asst. 7400 series (74, 74C, 74L, 74F)	0.1\$4.95	\$4.49			
135280	GB108LB	1 lb. (400 pcs.) asst. 7400 series (74, 74C, 74L, 74F, 74S, 74HC)	1.0 SALE	17.95			
18024	GB109★	50 asst. linear series (LM300, 500, 700, 7800, 7900 regulators) DIP, TO-3, TO-220	0.1 4.95	4.49			
145242	GB109LB	1 lb. (330 pcs.) asst. linear series (LM300, 500, 700, 7800, 7900 regulators)	1.017.95	15.95			
129891	GB111	50 asst. 1 amp positive regulators (T0-3, T0-220, 7800 series)	0.44.95	4.49			
129904	GB112	50 asst. 1 amp negative regulators (T0-3, T0-220, 7900 series)	0.44.95	4.49			
18251	GB170	50 asst. 74LS series (74LS, HC, HCT, etc.)	0.14.95	4.49			
114964	GB171	50 asst. microprocessor series (micros, RAMs, EPROMs)	0.17.95	6.95			
114446	GB150★	50 asst. crystals and oscillators	0.25.95	5.39			
135415	GB150LB	1 lb. (195 pcs.) asst. crystals & oscill.	1.0 SALE	15.95			

135415	GB150LB	1 lb. (195 pcs.) asst. crystals & oscill	. 1.0	SALE	15.95
	Switch	es, Relays and Heat Shrii	ık Tub	ing	
Part No.	Product No.	Description	Wt. (lbs.)	1-9	10-24
18235	GB165★	50 asst. switches			
		(toggle, push button, rocker, slide)	0.4	\$6.95	\$6.25
135378	GB165LB	1 lb. (135 pcs.) asst. switches			
		(toggle, push button, rocker, slide)	1.0	SALE	13.49
141962	GB142	15 asst. electro mechanical relays	0.5	6.95	6.25
141971	GB145	50 asst. sizes/heat shrink tubing (3"L) 0.2	6.95	6.25
		Note: I B grab bag	nuantitio	are a	nnrovin

135378 **LEDs and Displays**

Part No.	Product No.	Description	Wt. (lbs.)	1-9	10-24
18041	GB110★	100 asst. sizes and colored LEDs			
		(T1/T13/4 round and rectangular)	0.1	\$5.95	\$5.39
18323	GB186	500 asst. sizes and colored LEDs			
		(T1/T13/4 round and rectangular)	0.3	16.95	14.95
135271	GB110LB	1 lb. (1900 pcs.) asst. LEDs (above)			
		(T1/T13/4 round and rectangular)	1.0	SALE	35.95
18201	GB162★	50 asst. sizes of colored displays			
		(7-segment LED, modules, stick)	0.3	7.95	6.95
135343	GB162LB	1 lb. (145 pcs.) asst. colored displays	S		
		(7-segment LED, modules, stick)	1.0	SALE	15.95

Resistors and Resistor Networks

Part No.	Product No.	Description	Wt. (ibs.)	1-9	10-24
134130	GB115	100 asst. resistor networks			
		(6, 8, 10-pin bussed & isolated)	0.1	\$4.95	\$4.49
18104	GB116★	200 asst. 1/4 watt resistors (5%/10%) 0.1	3.95	3.49
135351	GB116LB	2200 pcs. asst. 1/4 watt resistors	1.0	17.95	15.95
18163	GB118	400 asst. 1/4 watt resistors (5%/10%) 0.2	.5.95	5.39
18139	GB117★	200 asst. 1/2 watt resistors (5%/10%) 0.2	.3.95	3.49
142009	GB114	50 asst. wire wound resistors	0.5	.4.95	4.49

IC Sockets, Connectors, Terminal Blocks and Clips

Part No.	Product No.	Description	Wt. (lbs.)	1-9	10-24
105620	GB120★	100 asst. IC sockets (DIP IC, PGA, TO-3)	0.2	\$3.95	\$3.49
135386	GB120LB	1 lb. (330 pcs.) asst. IC sockets			
		(DIP IC, PGA, TO-3)	1.0	SALE	7.95
105654	GB130★	50 asst. D-sub, UG, IDC, card edge			
		connectors (solder cup/PC mount)	0.9	4.95	4.49
135360	GB130LB	4 lbs. (150 pcs.) asst. D-sub, UG, IDO	ς,		
		card edge connectors (solder cup/PC)	4.0	SALE	9.95
141989	GB146	6 asst. large terminal blocks	0.4	3.95	3.49
141997	GB148	15 asst. adhesive cable clips	0.1	4.95	4.49

Spacers, Standoffs, Springs, Solenoids and Toy Motors

Part No.	Product No.	Description	Wt. (lbs.)	1-9	10-24
55968	GB140★	100 asst. alum. & nylon spacers/standoffs	S		
		(sizes 2-56 to 8-32, round and hex)	0.4	\$5.95	\$5.39
135423	GB140LB	1 lb. (310 pcs.) asst. spacers/standoffs			
		(sizes 2-56 to 8-32, round and hex)	1.0	12.95	11.49
141938	GB143	1/2 lb. (300 pcs.) asst. steel springs	0.5	7.95	6.95
141954	GB141	5 asst. pull-type solenoids	0.7	5.95	5.39
18294	GB182★	5 asst. toy DC motors (1.5 - 12VDC)	0.3	3.95	3.49

Jameco's Surprise Grab Bags

Product No. Description GB191LB★ 3 lbs. (1075 pcs.) electronic components: 135263 axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, connectors, sockets, thermistors, resistor networks, diodes, IC's, standoffs oscillator/resonators, inductors,



Component/computer grab bag Hundreds of electronic components cables, power supply, transformer, PC board and computer products (average weight: 10 lbs.)..

resistors, pots, switches, LEDs...



e approximate. Opened grab bags are not returnable



\$1.39 Sale price good at this quantity only

SALE. Sale price to the right of banner good for that quantity, or less





99.7% Stock **Availability**

22.49

JAMECO Electronic Component Cabinet Kits

Kits include the Most Popular Components with extra space for your Customized Expansion



Each Kit includes a 20 Drawer Component Cabinet (81701), 20 clear plastic drawers, 20 clear dividers (85446), 30 adhesive labels for drawers to identify parts in kit, all Electronic Components listed in each kit.

- Cabinet size: 6.0"L x 15.0"W x 7.9"H (81701)
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Cabinet: ABS-Black Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit, each group of Components separately packaged.

• Refill package does not include Cabinet (81701 - pg 32)

LEDs & Mounting Hardware Kit \$10 VALUE Includes 540 pcs. (15 types) LEDs and mounting hardware

10 each	· 10 each	30 each	30 each	100 each
NE2	XC5410	CTP280	XC209Y	LMH200
XC52RG	XC5491	RTP280	XC556G	XC209R
XC554R	XC57124R	XC209G	XC556Y	XC556R
Part No.	Description	We	ight 1-4	5-9
84996	540 pc. LED & Hard	ware kit 5.0	lbs\$69.95	\$62.95
130438	Refill for 84996 (5-	40 pc.) 0.3	lbs54.95	49.95

7400 Corice IC Vit

7400 Series IC Kit	\$204 VALUE
. (00) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

include.	s 330 pcs. (30 t	ypes) 7400 (Ti	TL) integrated (Circuits
5 each	10 each	10 each	10 each	20 each
7483	7402	7420	7485	7400
7489	7405	7432	7486	7404
7490	7410	7447	7493	7406
74154	7411	7470	74121	7407
74192	7414	7475	74123	7408
74193	7417	7476	74125	7474
84953	330 pc. 7400 s	eries IC kit 6.	2 lbs SALE	\$152.95
130382	Refill for 84953	3 (330 pc.) 1.	5 lbs 139.95	129.95

74LS00 Series IC Kit

Includes	420 pcs. (35	types) 74LS (T	TL) Integrated	l Circuits
10 each	10 each	10 each	10 each	20 each
74LS05	74LS47	74LS93	74LS193	74LS00
74LS07	74LS48	74LS123	74LS240	74LS02
74LS10	74LS75	74LS125	74LS244	74LS04
74LS11	74LS76	74LS139	74LS245	74LS08
74LS14	74LS85	74LS151	74LS273	74LS32
74LS20	74LS86	74LS157	74LS373	74LS74
74LS30	74LS90	74LS174	74LS374	74LS138

84961 420 pc. 74LS series IC kit 6.7 lbs. \$119.95 \$107.95 130391 Refill for 84961(420 pc.) 2.0 lbs. ..104.95 94.95

CD4000 Series IC Kit (CMOS) \$101 VALUE

Includes	300 pcs. (25 ty)		eries Integrated	
10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066
84970	300 pc. CD4000	series IC kit 6.	1 lbs\$84.95	\$76.95

130403 Refill for 84970 (300 pc.) 1.4 lbs. .

Linear Series IC Kit 5163 VALUE Includes 385 pcs. (35 types) Linear Series Integrated Circuits

111014400	ood pool (oo ly	poo, Linear	ouriou intogratou	Ontulita
5 each	10 each	10 each	10 each	20 each
ULN2003A	LM317T	LM339N	LM747CN	7805T
LM335Z	78L05	LM311N	LF351N	7812T
NE5532	7815T	LM556N	LM301N	NE555V
TL074CN	7912T	LM1458N	LM386N-3	LM741CN
TL072CP	7905T	TL082CP	LM723CN	LM358N
LM385Z1.2	2 LM337T	LF353N	LM1488N	LM324N
LM567V	7915T	LF356N	LM1489N	LM336Z
84988 3	85 pc. Linear s	eries IC kit	6.0 lbs. \$159.95	\$143.95
130411 F	Refill for 84988	3 (385 pc.)	1.3 lbs 144.95	129.95

Low Profile IC Socket Kit KAA VALUE

FAX Toll Free 1-800-237-6948

includes out pcs. (10 types) Solder tall (11n) IC Sockets				
10 each	20 each	20 each	50 each	50 each
22LP	18LP	28LP	8LP	16LP
24SLP	24LP	40LP	14LP	20LP
85075	300 pc. LP IC 3	Socket kit	5.5 lbs \$34.95	\$31.95
130471	Refill for 85075	5 (300 pc.)	1.0 lb19.95	17.95

Gold Wire Wrap IC Socket/ID Kit 1977 VALUE

Includes 120 pcs. (8 types) Level 2 (Gold) WW IC Sockets

(o types) riasiic sucket	wiap in maikeis	
_ 5 each	10 each	10 each
28ID	8ID	16ID
28WW	8WW	16WW
40ID	14ID	20ID
40WW	14WW	20WW
Description	Weight 1-4	5-9
120 pc. WW IC Socket kit	5.2 lbs\$89.95	\$79.95
Refill for 85067 (120 pc.)	0.5 lbs 74.95	67.95
	\$ each 28ID 28WW 40ID 40WW Description 120 pc. WW IC Socket kit	28ID 8ID 28WW 8WW 40ID 14ID 40WW 14WW Description Weight 1-4 120 pc. WW IC Socket kit 5.2 lbs\$89.95

1/8 Watt Carbon Film Resistor Kit Includes 540 pcs (30 values) 1/8 watt 5% Resistors

mondos oto pos. (ou values) 70 wall 078 nesisions				
10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	3.3ΚΩ	27ΚΩ	100Ω
47Ω	680Ω	5.1KΩ	33ΚΩ	220Ω
150Ω	1.5KΩ	5.6KΩ	47ΚΩ	1ΚΩ
270Ω	2ΚΩ	6.8KΩ	470ΚΩ	4.7ΚΩ
330Ω	2.2ΚΩ	15ΚΩ	1MegΩ	10KΩ
390Ω	2.7ΚΩ	22ΚΩ	10MegΩ	100ΚΩ
108329	540 pc. 1/8 watt	Resistor kit 4	4.9 lbs \$29.95	\$26.95
108302	Refill for 10832	9 (540 pc.) (0.2 lbs SALE	11.95

1/4 Watt Carbon Film Resistor Kit

Includes	540 pcs. (30 vai	lues) 1/4 watt 5	5% Resistors 📅	Agricultura de la constitución d
10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	2.7ΚΩ	22ΚΩ	100Ω
47Ω	680Ω	3.3ΚΩ	33ΚΩ	220Ω
150Ω	1.2ΚΩ	5.1ΚΩ	47ΚΩ	1ΚΩ
270Ω	1.5KΩ	5.6KΩ	470ΚΩ	4.7ΚΩ
330Ω	2ΚΩ	15ΚΩ	1MegΩ	10ΚΩ
390Ω	2.2ΚΩ	20ΚΩ	10MegΩ	100ΚΩ
81832*	540 pc. 1/4 watt	Resistor kit 4.	9 lbs \$28.95	\$25.95
103165	Refill for 81832	(540 pc.) 0.	2 lbs 13.95	12.49

1/2 Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2 watt 5% Resistors 10 each 50 each 10Ω 470Ω 3.3ΚΩ 27ΚΩ 100Ω 33KΩ 47Ω 680Ω 5.1KΩ 220Ω 150Ω 1.5KΩ 5.6KΩ 47ΚΩ 1ΚΩ 270Ω 4.7KΩ 10KΩ 2ΚΩ 6.8KΩ $470 \text{K}\Omega$ 330Ω 390Ω 1MegΩ 10MegΩ 2.2ΚΩ 15ΚΩ

107879	540 pc. 1/2 watt Resistor kit	5.1 lbs.	\$32.95	
107852	Refill for 107879 (540 pc.)	0.4 lbs.	SALE	15.95

Single Turn Cermet Pot Kit

inciuaes	: /U pcs. (1U vaiues)	יו 2 waπ	Linear laper Potei	ntiometer
5 each	5 each	5 each	10 each	10 each
63P500	63P5K	63P500K	63P1K	63P50K
63P2K	63P20K	63P1Meg	63P10K	63P100K
85032	70 pc. single turn	Pot kit	4.9 lbs\$54.95	\$49.95
130446	Refill for 85032(7)	0 pc.)	0.1 lbs 39.95	35.95

15 Turn Cermet Pot Kit

includes	s 70 pcs. (To value	es) ³/4 wan 1	Linear laper Potei	ntiometer
5 each	5 each	5 each	10 each	10 each
43P500	43P5K	43P500K	43P1K	43P50K
43P2K	43P20K	43P1Meg	43P10K	43P100K
85041	70 pc. 15 turn F	ot kit	4.9 lbs \$64.95	\$57.95
130454	Refill for 85041	(70 pc.)	0.2 lbs 49.95	44.95

Switch Kit

S102 VALUE

	: 84 pcs. (15 types)			
3 each	5 each	5 each	5 each	10 each
206-12	206-4	JMT223	MPC223	206-8
75900	76523	MPC121	LFH223	JMT123
JMT221	JMT121	MPC123	MS103	MS102
85059	84 pc. Switch kit		5.0 lbs. \$79.95	\$69.95
130420	Refill for 85059 (8	34 pc.)	0.8 lbs 64.95	57.95



Electronic Hardware, Spacer and Standoff Kit

-11-01-0-0-0-0	mended Late poor (Lo typed) opasoro, otariadito, ridas,					
Flat, Tooth & Lock Washers and Slotted PH Screws						
25 each	100 each	100 each	100 each	100 each	100 each	
Spacers	Hex nuts	Flat,	Int. tooth,	Split lock	PH machine	screw
2-56	2-56	_		#2	2-56 x 1.	/4"
4-40	4-40	#4	#4	#4	4-40 x 1/4	, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4	, 1/2
8-32	8-32	#8	#8	#8	8-32 x 3/8	, 1/2
Part No.	Descript	ion		Weight	1-4	5

108433 ± 2200 pc. Elec. Hardware kit 7.5 lbs. ...\$39.95 130497 Refill for 108433 (2200 pc.) 2.7 lbs.24.95 Radial Capacitor Kit

Includes 110 pcs. (10 values) Radial Electrolytic Capacitors					
5 each	10 each	10 each	10 each	20 each	
2200µf25v	4.7µf 50v	100µf 50v	470µf 25v	1µf 50v	
3300µf25v	47μf 50v	220µf 25v	1000µf 16v	10µf 50v	
			3 lbs \$34.95	\$31.95	
130331 Re	fill for 81867	(110 pc.) 0.	5 lbs 19.95	17.95	

Axial Capacitor Kit

Includes 110 pcs. (10 values) Axial Electrolytic Capacitors				
5 each	10 each	10 each	10 each	20 each
1000µf25v	4.7µf 50v	47μf 50v	220µf 50v	1μf 50v
2200µf16v	22µf 50v	100µf 50v	470µf 50v	10μf 50v
81875 11	0 pc. Axial Ca	pacitor kit 5.3	lbs\$34.95	\$31.49
130340 Re	efill for 81875	(110 pc.) 0.6	lbs19.95	17.95

Ceramic Capacitor Kit (1967)

includes 320 pcs. (10 values) 50v Geramic Disc Gapacitors					
20 each	20 each	20 each	50 each	50 each	
10pf	47pf	.022µf	100pf	.01µf	
22pf	470pf	.047µf	.001µf	.1µf	
81859±3	20 pc. Cerami	ic Cap. kit	5.0 lbs \$29.95	\$26.95	
130232 P	afill for 91950	2 /220 no)	0.2 lbc 44.0E	12.40	

Mylar Capacitor Kit

111014400	100 pbs. (10 F	aides) 1001 2	ro /o mytat bapaciti	UIO
10 each	10 each	10 each	20 each	30 each
.022µf	.047µf	.47µf	.001µf	.01µf
.033µf	.22µf	1µf	.0047µf	.1µf
81883	160 pc. Mylar	Capacitor kit	5.1 lbs \$34.95	\$31.49
130358	Refill for 8188	33 (160 pc.)	0.3 lbs 19.95	17.95
				The second second

Tantalum Capacitor Kit 1500/110

3 each	10 each	10 each	20 each
6.8µf 35v	.22µf 35v	4.7µf 35v	1µf 35v
15µf 25v	.47µf 35v	10μf 35v	.1µf 35v
47µf 25v	3.3µf 35v	33µf 25v	2.2µf 35v
	129 pc. Tantalum Cap. kit		\$44.95
130260	Refill for 81841 (129 pc.)	0.3 lbs 34.95	31.95

Diode Kit

morauco	Lie pos. (10 typos)	Zullul, UNI	wiing ana omeon n	001111010
10 each	10 each	10 each	10 each	50 each
1N270	1N3600	1N4733	1N5401	1N4001
1N751	1N4007	1N4735	1N5404	1N4004
1N753	C106B1	1N4742	1N5408	1N4148
82587	270 pc. Diode ki	t	5.0 lbs \$39.95	\$35.95
130366	Refill for 82587	(270 pc.)	0.3 lbs24.95	22.95

Transistor Kit

ı	inciuaes	s tou pcs. (15 typ	es) npn, pnp i	iransistors	
ı	5 each	5 each	10 each	10 each	30 each
ı	TIP31A	MPF102	PN2907	MPSA13	PN2222
ı	TIP41A	2N3055	2N2907A	2N4401	2N3904
l	TIP120	2N5951	2N2222A	2N4403	2N3906
ı	82595	180 pc. Transist	or kit 5.1	lbs\$49.95	\$44.98
l	130374	Refill for 82595	(180 pc.) 0.4	lbs34.95	31.49

TO-3 Heat Sink

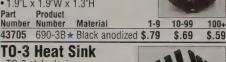
- TO-3 package
- · Black anodized
- 4.8"L x 1.5"W x 1.3"H

Product Number Number 10-99 DUDE4★ \$3.95 \$3.49 16512 TO-3 \$2.95

T0-3/T0-220 Heat Sink

- TO-3/220 package (1)
- TO-220 package (2) • 1.9"L x 1.9"W x 1.3"H

Product Number Number Material 43705 690-3B★ Black anodized \$.79



• TO-3 style devices

- · Pre-mounted metal spacers
- · Black anodized aluminum 1.9"L x 1.4"W x 1.1"H (H dimen-
- sion includes spacer height) Product

Number	Number	Туре		Price
107289	601FBS0	T0-3	Closeout	\$.49
T0-5	Heat Si	nk	A 1	

· Black anodized aluminum

- 1.3"W x 0.5"H x 0.4"D
- Product Number Number

10/300	111110201	10-5		
T0-22	0 Heat	Sink	Clip	Γ

- · Light weight aluminum
- 1.0"W x 0.8"H x 0.4"D

Number Number 1-9 10-99 100-999 1000+ 107297 MK220 TO-220 ...\$.29 \$.25 \$.19 \$.12

Heat Sink Compound

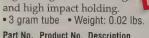
This silicone free compound provides more effective heat transfer. Will not harden, dry out, melt,



or contaminate wave solder baths.

• 2 oz. tube • Weight: 0.2 lbs. Part No. Product No. Description 10-99 142640 1978DP Heat sink comp....\$9.95 \$8.95

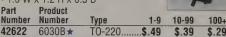
Tech Hold® Adhesive This general purpose cyanoacrylate adhesive exhibits high strength, fast bonding,



o gran	tube **	orgin. 0.02 ibs.	-	-
Part No.	Product No.	Description	1-9	11
		Adhesive	\$1.95	\$1
		Addition to the Co		1.72

TO-220 Heat Sink

- TO-220 package
- · Black anodized
- 1.0"W x 1.2"H x 0.5"D



TO-220 Heat Sink

- TO-220 package
- · Black anodized

Part	Product	† D					
Number	Number	Туре	1-9	10-99	100		
40504	291-36H★	T0-220	\$.49	\$.39	\$.2		

TO-220 Heat Sink

- TO-220 case styles
- Aluminum
- 1.0"W x 1.2"H x 0.5"D

	Part Number	100
70914 MB206 TO-220\$.49 \$.39 \$	70914	\$.2

TO-220 Heat Sink

- Wave solderable
- TO-220 case styles · Black anodized aluminum
- 1.0"W x 1.2"H x 0.5"D

Part	Product	
Number	Number	Type
70771	MR209	TO-220

TO-220 Heat Sink

- TO-220 case styles
- · Good for high power devices
- Aluminum

\$.05

• 2.0"W x 1.6"H x 0.8"D

Part Number	Product Number	Туре	1-9	10-99	100+
71301	MB213	TO-220	\$.89	\$.69	\$.59

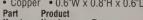
T0-126/T0-220 Heat Sink

- Aluminum
- · Bendable tabs for mounting to PCBs (.15"L x .06"W)
- 0.9"W x 1.3"H x 0.3"D

Part	Product				
Number	Number	Type	1-9	10-99	100
134973	PSB2-1U	TO-126/127/220	\$.39	\$.29	\$.1

T0-220 Heat Sink

- Thermalloy #THM7141
- Single solder tab .097*



• coppe	• U.O VV	X U.O H X	U.0 D
Part	Product		_
Number	Number	Туре	1-9
133073	THM7141	T0-220	\$.25



10-99

\$.49

\$.29

\$.59

\$.19 \$.09

Thermoelectric Cooler w/ Heat Sink

Solid state heat pumps that utilize the Peltier effect to transfer heat from one side of the pump to the other for cooling up to 60°C.

• Maximum operating

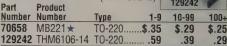
temperature: 100°C

- Recommend fan P/N 102875 (pg 59) 12VDC @ 740mA (fan installation is left up to the customer to meet their specific application)
- Heat or cool by changing direction of current
- Rated lifetime over 200,000 hours
- For stationary use recommend 13.8VDC @10A supply P/N 138667, pg 64 (operates on 15.4VDC max) • 18 (AWG) wire leads
- Can be operated from a 12V car battery
- Removed from original equipment Weight: 1.9 lbs.
- Size: Heat sink: 5.0"L x 5.0"W x 1.3"H 2.7"L x 1.8"W x 1.2"H

Part No.	Description	1-4	5-
131975	Thermoelectric cooler	\$29.95	\$26.9
TO 00	0.11		

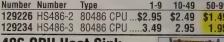
TO-220 Heat Sink

- · Black anodized aluminum
- Plastic power semi-conductor devices
- 0.7"W x 0.8"H x 0.4"D (P/N 70658) 1.0"W x 1.2"H x 0.5"D (P/N 129242)



486 CPU Heat Sink

- Adhesive tape application
- 1.7"L x 1.6"W x 0.4"H (P/N 129226)
- 1.7"L x 1.6"W x 0.7"H (P/N 129234)
- 129234 **Product** Number Number



486 CPU Heat Sink

- · Snap-in installation
- 1.9"L x 1.9"W x 0.3"H Product Part

Number	Number	Type	1-9	10-49	50-9
85497	HS486	80486	CPU\$2.95	\$2.49	\$2.25
TO 2	and TO	000	(P)	۵	

TO-3 and TO-220 **Heat Sink Mounting Kits**

- TO-3 and TO-220 heat sink insulator assemblies
- 10 per pack

Part	Product		04103	(2)			
Number	Number	Type			1-9	10-49	50-9
34139	T3	T0-3	, 12 pc.	kit \$	4.95	\$4.49	\$3.9
0.4404	TO I	TO O	20 5	0.74	0.05	0 40	

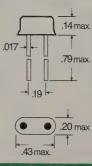
TO-220, 5 pc. kit **3.95**

Low Profile Microprocessor Crystals

Microprocessor HC-49/US Crystals

Quartz crystals serve as an exceptional time base for microprocessor circuits providing high reliability and long term clock stability.

- · Frequency range: 3.5 to 70.0MHz
- · Operating temperature: -10°C to +60°C
- · Drive level: 0.5mW (fundamental frequency)
- · Frequency stability tolerance: ±50ppm
- · Aging: ±5ppm/year maximum



1	Nu
<u>↓</u> 14 max	13
1	13
79 max.	13
1	13
	13
	13
<u>+</u>	13
20 max	13
	13

Part	Product	Frequency					Pricing		OEM
Number	Number	(MHz)	Impedance	Resistance	Microprocessor	1-9	10-49	50-99	100+
137816	CY3.57LP	3.579545	17p <i>f</i>	150Ω max.	MC6801, 2, 3 / MM5369	\$1.05	\$.85	\$.75	\$.65
137824	CY3.68LP	3.6864	18p <i>f</i>	150Ω max.	8748 / 8035-8	1.05	.85	.75	.65
137832	CY4LP	4.000	17pf	120Ω max.	MCS-40 / MC6802, 8 ,9 / CDP1802	1.05	.85	.75	.65
137841	CY7.37LP	7.3728	20p <i>f</i>	70Ω max.	8051 / 8031	1.05	.85	.75	.65
137859	CY8LP	8.000	Series	60Ω max.	IM6100A / MC68B09	1.05	.85	.75	.65
137867	CY10LP	10.000	Series	50Ω max.	MCS-85 / 8085A-2	1.05	.85	.75	.65
137875	CY11.05LP	11.0592	Series	50Ω max.	General purpose	1.05	.85	.75	.65
137883	CY12LP	12.000	Series	40Ω max.	MCS-86 / 8086 / 8284 / 8202	1.05	.85	.75	.65
137891	CY16LP	16.000	Series	40Ω max.	8080 / 8224 / general purpose	1.05	85	75	65



\$1.39 Sale price good at this quantity only Sale price to the right of banner good for that quantity, or less

Documentation available at fip. jameco.com

Also available at your local JIM-PAK retailer - see page 128

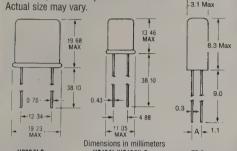
99.7% Stoc

Microprocessor Crystals

Crystals are used as a time base or as a time

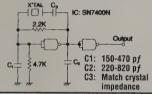
14728

function to ensure the most reliable clock stability for microprocessor circuits. In the table to the right, we have listed the case and style of the crystal. If it is parallel resonance, the load capacitance is listed.



- HC33/U Case HC49/U (HC18/U) Case TF Case
 Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Frequency stability tolerance: ±50 ppm from -10°C to +60°C
- Shunt capacitance: 7pf maximum

Application Reference (4~14MHz) (Parallel Resonance)



HC33/II CASE

и					11000/0 0/102				
ı	Part	Product				Pricing			OEM Price
ı	Number	Number	Frequency (MHz)	Impedance	Microprocessor	1-9	10-49	50-99	100+
ı	14349	CY1★	1.0	13p <i>f</i>	MC6800/6808/6809E/6500 series	\$5.95	\$5.49	\$4.95	\$4.49
ı	14357	CY1.84	1.8432		MC14411/CDP1802/CDP1804	1.49	1.25	.99	.85
ı	14470	CY2	2.0	20pf	2650/F-8/MC6800,02/6500 series			Closeout	1.49

HC49/U (HC18/U) CASE

				1049/U (HC18/U) CASE				
	CY1.843	1.8432	18p <i>f</i>	MC14411/MC6802	\$1.75	\$1.49	\$.99	\$.79
	CY2.0	2.0	Series	2650/F-8	1.95	1.69	1.19	.99
101274	CY2.457	2.4576	32pf	CDP1702/1802C/1804/1804C	1.15	.95	.75	.65
14525	CY3.27	3.2768	18p <i>f</i>	IM6100C/CDP1802/CDP1804	1.15	.95	.75	.65
14533	CY3.57★	3.579545	18p <i>f</i>	MC6801,2,3/MM5369	1.05	.85	.65	.49
14568	CY3.68	3.6864	18p <i>f</i>	8748/8035-8	1.05	.85	.65	.49
14592	CY4★	4.0	20p <i>f</i>	MCS-40/MC6802,8,9/CDP1802	1.05	.85	.65	.49
102630	CY4.433	4.433619	18p <i>f</i>	Signetics 2650	1.05	.85	.65	.49
14621	CY4.91	4.9152	Series	CDP1802C/1804/1804C	1.05	.85	.65	.49
14664	CY5.06	5.0688	Series	COM5016/5016T/5031	1.05	.85	.65	.49
14681	CY6	6.0	18p <i>f</i>	MCS-48/IM8048	1.05	.85	.65	.49
14699	CY6.14	6.144	30pf	MCS-85/8085	1.05	.85	.49	.45
14710	CY7.37	7.3728	30pf	8051/8031	1.05	.85	.65	.49
14728	CY8★	8.0	Series	IM6100A/MC68B09	1.05	.85	.65	.49
14381	CY10★	10.0	Series	MCS-85/8085A-2	1.05	.85	.65	.49
120061	CY11.05★	11.0592	Series	General purpose	1.05	.85	.65	.49
14402	CY12★	12.0	Series	MCS-86/8086/8284/8202	1.05	.85	.65	.49
14437	CY14.31	14.31818	Series	8080/8224/general purpose	1.05	.85	.49	.45
14453	CY16	16.0	Series	8080/8224/general purpose	1.05	.85	.65	.49
14517	CY20 -	20.0	Series	MCS-80/8080A/8224	1.05	.85	.65	.49
14648	CY49.43	49.435	24pf	LM1872N			Closeout	.49
14656	CY49.89	49.890	Series	LM1871N	1.15	.95	.75	.65

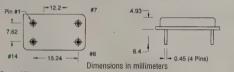
TF CASE

	14584	CY32.76	32.768kHz	10.5p <i>f</i>	Tuning fork	\$.89	\$.75	\$.49	\$.39
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TTL Crystal Clock Oscillators (full can) and Socket 10268



A single component oscillator utilizing a combination of thick film hybrid and quartz crystal technology. Suitable for use in computer and digital based equipment.



Specifications

• Input voltage: +5VDC, ±0.5VDC

 OSC series oscillators fit into a standard 14-pin DIP socket PN 37209 (pg 43)

PN 37209 (pg 43)

Frequency stability ±100ppm

Operating temperature: 0°C to 70°C

Pin #	Function
1*	N/C
7	GND
8	Output
14	+5VDC
	1* 7

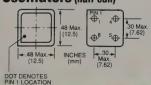
Out	put Wavef	orms		
	. tf.	,TTL		
VOH "1" level	— 		DC	
1.4V DC			0	
VOL "O" level	F	0.4V	DC .	
0.0V DC	TH			
-	T	SYM-TH	100/%)	133006

	Part No.	Product No.	Frequency (MHZ)	Input Current	Rise Fall time	Max Input Curr.	Output Curr.	1-9	10-99	100-999	1000+
ı	27861	OSC1	1.0	45mA	15ns	: 7mA	-1mA	\$3.75	\$3.19	\$2.65	\$2.25
ı	27879	OSC1.84	1.8432	45mA	15ns	7mA	-1mA	2.49	2.25	1.95	1.49
	27924	OSC2	2.0	30mA	15ns	7mA	-1mA	2.49	2.25	1.95	1.75
ı	27967*	OSC4	4.0	50mA	10ns	7mA	-1mA	2.49	2.25	1.95	1.75
ı	27991	OSC8	8.0	30mA	15ns	15mA	-3mA	1.49	1.25	.89	.75
	27887	OSC10	10.0	20mA	10ns	15mA	-3mA	1.49	1.25	.89	.75
ı	144207	OSC11.05	11.059	30mA	10ns	50mA	-3mA	2.75	2.25	1.95	1.75
ı	27895	OSC12	12.0	50mA	10ns	15mA	-3mA	1.49	1.25	.89	.75
ı	108652	OSC14.31	14.31818	50mA	10ns	15mA	-3mA	1.49	1.25	.69	.59
ı	27908	OSC16	16.0	50mA	10ns	- 15mA	-3mA	1.49	1.25	.69	.59
ı	27932	OSC20	20.0	20mA	10ns	17mA	-3mA	1.49	1.25	.89	.75
ı	102681	0SC24	24.0	20mA	7ns	17mA	-3mA			Closeout	.49
ı	76814	OSC25	25.0	15mA	7ns	18mA	-3mA	1.49	1.25	.89	.75
1	27941	OSC32	32.0	15mA	7ns	18mA	-4mA	1.49	1.25	.69	.59
	27959	OSC32.76	32.768kHz	15mA	6ns	- 8 18mA	-4mA	3.75	3.19	2.65	2.25
ı	76822	OSC33	33.0	15mA	6ns	18mA	-4mA	2.35	1.95	1.69	1.49
ļ	27975*	OSC40	40.0	15mA	6ns	18mA	-4mA	1.49	1.25	.89	.75
ı	76831	OSC50	50.0	25mA	6ns	25mA	-4mA	1.49	1.25	.89	.75
ı	78721	OSC66.66	66.66	80mA	6ns	25mA	-4mA	1.49	1.25	.89	.75
ı	77489	OSC80	80.0	80mA	3ns	25mA	-4mA	2.95	2.49	1.75	1.49
ı	76857	OSC100	100.0	90mA	3ns	25mA	-4mA	3.75	3.19	2.65	2.25

*(Pin 1 must be grounded/tri state)

Part No.	Description	1-9	10-49	50-99	100
133006	14-pin full can oscillator socket, low profile soldertail	\$1.05	\$.85	\$.65	\$.4

TTL Crystal Clock Oscillators (half can)



PIN #	Function
1	N/C
4	GND
5	Output
8	+5VDC
_	
	22 Max. (5.8)
لمهملا	4.22 Max.
	★ (5.8)

.02

- OSCH series oscillators fit into a standard 8-pin DIP socket. P/N 51633 (pg 43)
- Input voltage: +5VDC, ±0.5VDC
 Frequency stability: ±100ppm
- Operating temperature: 0°C to 70°C

ı	Part	Product				Max Input	Output		Pricing		OEM Price
l	Number	Number	Frequency (MHz)	Input Current	Rise Fall time	Current	Current	1-9	10-49	50-99	100+
l	95249	OSC1H	1.0	45mA	6ns	30mA	-0.4mA	\$3.95	\$3.49	\$2.95	\$2.49
l	95257	OSC1.84H	1.8432	45mA	6ns	30mA	-0.4mA			Closeout	.75
l	102779	OSC10H	10.0	30mA	6ns	30mA	-0.4mA	2.95	2.49	1.95	1.75
L	95281	OSC32H	32.0	15mA	6ns	40mA	-0.4mA			Closeout	.75





DL-35/41 (SMT) Case









4-lead Molded Case 4-Pin DIP Case 179-01 Case

DO-7/27A/35/41 Case

DO-201AD/1.5KE

TO-220/AB Case

TO-202 Case

	Zener Diodes											
Part	Product				Pricing O							
Number	Number	NTE/ECG	Case	Description	1-9	10-99	100-999	1000+				
36290	1N751★	5010A	DO-35	5.1V@20mA 500mW	\$.11	\$.08	\$.06	\$.05				
36302	1N753	5013A	DO-35	6.2V@20mA 500mW	.11	.08	.06	.05				
36089	1N4732	5096	DO-41	4.7V@53mA 1 W	.19	.15	.10	.07				
36097	1N4733★	135A	D0-41	5.1V@49mA 1 W	.19	.15	.11	.08				
36118	1N4734★	136A	D0-41	5.6V@45mA 1 W	.22	.17	.13	.10				
36126	1N4735★	137A	D0-41	6.2V@41mA 1 W	.22	.17	.13	.08				
36169	1N4742★	142A	DO-41	12.0V@21mA 1 W	.22	.17	.13	.08				
36185	1N4744★	145A	DO-41	15.0V@17mA 1 W	.22	.17	.13	.10				
140126	1N5245B	5024A	DO-35	15.0V@8.5mA .5 W	.19	.15	.10	.07				

	Switching Diodes											
140257	1N3595	177	DO-35	150 PRV@1mA	200mA	\$.55	\$.45	\$.35	\$.25			
35967 1N3600★ 519 DO-35 50 PRV 200mA .15 .12 .09 .07												
36038	1N4148★	519	DO-35	75 PRV@50µa	10mA	.05	.04	.03	.02			
36311 1N914 519 DO-35 75 PRV@5μα 10mA 07 .06 .05 .04												
Compress Diverges Diede												

General Purpose Diode											
35941 1N270 109 DO-7 80 PRV 200mA \$.35 \$.29 \$.25 \$.22											
Silicon Rectifiers											

			ااان	CON MECI	1111012				
35975	1N4001*	116	D0-41	50 PRV	1 amp	\$.06	\$.05	\$.04	\$.03
76961	1N4002	116	D0-41	100 PRV	1 amp	.06	.05	.04	.03
76970	1N4003	116	D0-41	200 PRV	1 amp	.06	.05	.04	.03
35991	1N4004*	116	D0-41	400 PRV	1 amp	.06	.05	.04	.03
76988	1N4005	116	D0-41	600 PRV	1 amp	.07	.06	.05	.04
76996	1N4006	125	D0-41	800 PRV	1 amp	.07	.06	.05	.04
36011	1N4007★	125	D0-41	1000 PRV	1 amp	.07	.06	.05	.03
77075	1N5400	5800	D0-27A	50 PRV	3 amp	.19	.15	.11	.08
36249	1N5401★	5801	D0-27A	100 PRV	3 amp	.19	.15	.11	.08
77083	1N5402	5802	D0-27A	200 PRV	3 amp	.17	.13	.10	.08
36265	1N5404★	5804	D0-27A	400 PRV	3 amp	.19	.15	.11	.08
77091	1N5406	5806	DO-27A	600 PRV	3 amp	.19	.15	.11	.08
77104	1N5407	5808	D0-27A	800 PRV	3 amp			Clesecut	.08
36273	1N5408★	5809	D0-27A	1000 PRV	3 amp	.32	.25	.19	.15
139328	FEP16DT	6240	TO-220AB	200 PRV	16 amp			CIE	.65
139310	1N5820	586	DO-201AD	20 PRV	3 amn			Clemanis	10

			S	Stud Rectif	fier				
5924	1N1188	5990	D0-5	400 PRV	35 amp	\$2.95	\$2.49	\$2.25	\$1.95
		Surfa	ace Mo	ount Diode	S (100 p	c. min)		

				IOUILL DIOUCS					
94924	1N4004SM	_	DL-41	400 PRV	1 amp	\$.17	\$.13	\$.07	\$.06
94908	1N4148SM	_	DL-35	75 PRV@50μa 10m/	A (1N 914)	.15	.12	.07	.06
Salara Salar									

	Sili	con C	ontrolle	d Rect	ifiers (SCR)	*Iso	lated		
Part	Product						Pricing		OEM
Number	Number	NTE/ECG	Case	Description		1-9	10-99	100-999	1000-
119802	2N5060	5400	TO-92	25 PRV	0.8A	\$.35	\$.29	\$.25	\$.22
120070	2N5062	5402	TO-92	100 PRV	0.8A	.49	.39	.35	.29
14736	C106B1	5455	T0-202	200 PRV	4A (2N6239)*	.75	.59	.49	.39
14752	C122B	5463	TO-220	200 PRV	8A*	1.25	.99	.75	.65
14761	C122M	5466	TO-220	600 PRV	8A*	1.35	1.15	.95	.75
140417	2N6507	5554	TO-220AB	400 PRV	25A	1.95	1.49	1.25	.99
14859	C38M	5547	TO-65	600 PRV	35A (2N3899)	4.95	3.95	3.49	2.95
		F	Full Way	ve Brid	ne Rectifie	rs			

н				uii ttuto	Dirago i	10011110	10			
1	103018	W02G★		4-lead molded	200 PRV	1 amp	\$.49	\$.39	\$.35	\$.29
1	102980	W04G	_	4-lead molded	400 PRV	1 amp	.49	.39	.35	.29
ı	102998	W06G	releases "	4-lead molded	600 PRV	1 amp	.49	.39	.35	.29
l	103000	DF01M★	5332	4-pin DIP	100 PRV	1 amp	.55	.45	.39	.32
l	103042	DF02M	5332	4-pin DIP	200 PRV	1 amp	.55	.45	.39	.32
ı	102971	DF04M	5332	4-pin DIP	400 PRV	1 amp	.65	.55	.45	.35
	103034	DF06M	5332	4-pin DIP	600 PRV	1 amp	.55	.45	.39	.32
	145429	KBP02M		4-lead molded	200 PRV	1.5 amp	.69	.59	.49	.39
1	119562	KBP04M	_	4-lead molded	400 PRV	1.5 amp	.89	.69	.39	.35
1	145411	KBP06M	_	4-lead molded	600 PRV	1.5 amp	.99	.79	.69	.59
l	145402	KBP10M		4-lead molded	1000 PRV	1.5 amp	1.09	.89	.79	.69
l	25574	MDA990-3★	5322	179-01	200 PRV	30 amp	3.95	3.49	2.95	2.49
	25591	MDA990-6	5326	179-01	600 PRV	30 amp	4.95	3.95	3.49	2.95
1					Triace					

140425	2N6071A	5603	TO-126	200 PRV 4A	\$.99	\$.75	\$.49	\$.39
31819	SC146B	5633	TO-220	200 PRV 10A (2N6342)	1.49	1.29	1.09	.89
31827	SC146M	5637	TO-220	600 PRV 10A (2N6344)	1.75	1.49	1.25	1.09
139336	Q4015L5	56020	T0-220AB	400 PRV 15A (Q4015L5)	1.85	1.59	1.39	1.29
	Bid	irectio	onal Tra	insient Voltage Su	ppres	ssors		

\$1.25 \$.99 103114 1.5KE6.8CA 4903 1.5KE 6.8V @10mA 1500W \$.75 \$.65 4921 15V @1mA 1500W

Silicon Planar Epitaxial High Speed Diodes

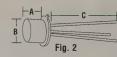
14018	5 3	140	177 3	140206 3		1401	93 3	
140185	BAS16	593	SOT-23	75 PRV@1.0µa 250mW	\$.19	\$.15	\$.11	\$.08
140177	BAW56	596	SOT-23	70 PRV@2.5μa 215mW	.19	.15	.11	.08
140206	BAV70	595	SOT-23	70 PRV@5.0μa 100mW	.19	.15	.11	.08
4 40400	D 41 100	}	00-00					

Infrared Diodes and Detectors

Infrared Diodes and Visible Light **Detectors**

- · Use for remote control or fiber optics
- P/N 133946 can be used w/ cameras – see pg 107 (peak emission wavelength – 940nm @ 1F 20mA)









П	Part	Product					Diameter	Dir	nensior	s(inche	s)				Pricing		OEM Price
	Number	Number	Color	Fig.	Description	Size	inch/mm	Α	В	C	D	Vf @ If (mA)	nm	1-9	10-99	100-999	1000+
	112150	TLN100★	Infrared	1	Infrared diode	T1	.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	\$.45	\$.35	\$.25	\$.19
i	112176	IRD300★	Infrared	1	Infrared detector	T1	.12/3	0.18	0.95	0.98	0.03	_	940	.45	.35	.25	.19
	133946	SLI-0308CP	Infrared	1	Infrared diode lamp	T1	.12/3	0.22	0.98	1.00	0.03	1.7V @ 50mA	940	1.09	.89	.79	.69
П	106526	TLN110★	Infrared	1	Infrared diode	T13/4	.200/5	0.34	0.78	0.84	0.04	1.6V @ 20mA	940	.45	.35	.19	.15
Н	112168	IRD500★	Infrared	1	Infrared detector	T13/4	.200/5	0.31	1.05	1.10	0.04	-	940	.45	.35	.19	.15
3	120221	BPW77	-	2	Visible light detector	TO-18		0.24	0.19	0.52		-	800	1.09	.89	.69	.65
We all	124417	L104HB	Infrared	3	Infrared diode	Rect.	_	0.09	0.45	0.45	0.16	1.5V @ 30mA	940	.39	.29	.19	.15
- New	124020	TP104	Infrared	3	Photo transistor	Rect.	0.16/4	0.09	0.45	0.45	0.16	_	850	.39	.29	.19	.15



\$1.39 Sale price good at this quantity only

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· Isolates a signal optically, as opposed to electronically W. · Protects equipment from feedback, surges, spikes 3 and noise . Wt.: .001 lbs. Fig. 1 Fig. 2 Sockets – see pages 43, 44, 46 Fig. 3 Fig. 5 Fig. 6 Fig. 7 114091 114104 117436 Fig. 8 Fig. 10 Fig. 11 Fig. 12 114008 Fig. 15 113929 114075

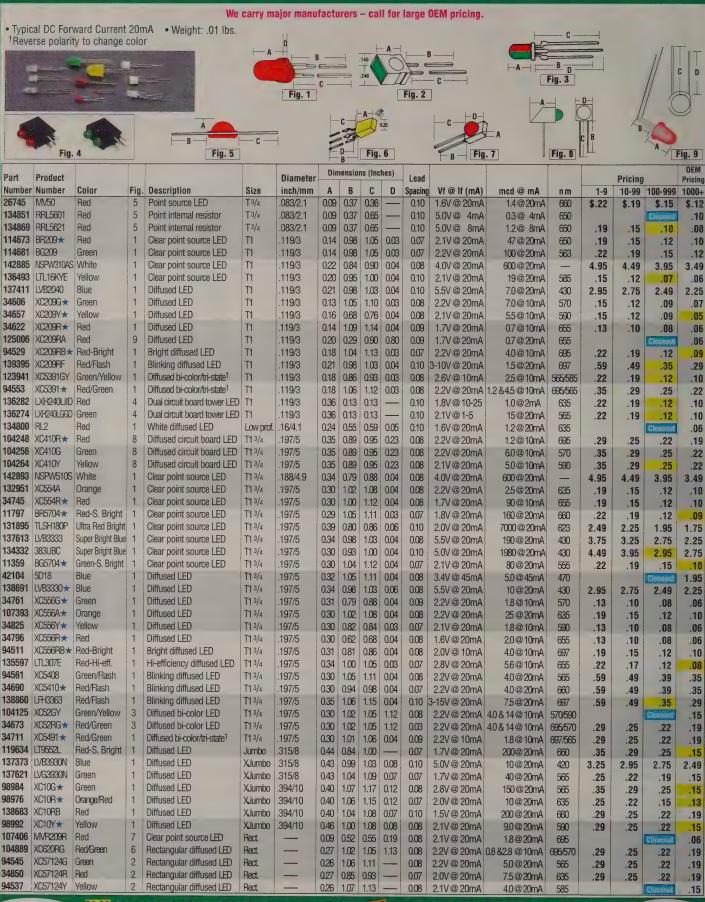
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					Fig. 18	5 1	2 3 4 5	6 7 8					
	1	Fig. 16		Fig.	17 Fig. 19 Fig. 20		Fig. 21		Fig. 2	2	Fig. 23	Fi	g. 24
Part	Product	NTE/				Forward	Input	Blocking	Isolation		Pricing		OEM
Number	Number	ECG	Fig.	Pins	Description	(V)	Current (mA)		(kV)	1-9	10-99	100-499	500-999
40985	4N25★	3040	3	6	Diode, NPN photo transistor	1.5	10	30	2.5	\$.45	\$.35	\$.25	\$.23
41005	4N26	3040	3	6	Diode, NPN photo transistor	1.5	10	30	1.5	.45	.35	.29	.25
144240	4N27	3040	3	6	Diode, NPN photo transistor	1.2	10	30	5.3	.35	.29	.25	.19
41013	4N28	3040	3	6	Diode, NPN photo transistor	1.5	10	30	0.5		SALE	.25	.19
41021	4N32 -	3083	8	6	Diode, NPN photo-darlington	1.5	10	30	2.5	.45	.35	.29	.25
41030	4N33★	3083	8	6	Diode, NPN photo-darlington	1.5	10	30	1.5	.45	.35	.29	.25
41056	4N35★	3041	3	6	Diode, NPN photo transistor	1.5	10	30	3.5	.45	.35	.29	.25
95011	4N37	3041	3	6	Diode, NPN photo transistor	1.5	10	30	1.5	.45	.35	.25	.23
42471	6N136	3092	9	8	High speed NPN transistor	1.7	16	4.5	2.5	.89	.79	.69	.65
113911		3087	11	8	Very high speed logic coupler	1.75	5	STTL/TTL	2.5	1.25	1.09	.95	.85
42489	6N138	3093	10	8	High speed, high gain darlington	1.7	1.6	4.5	2.5	.89	.79	.59	.55
113929		3093	10	8	High speed, high gain darlington	1.7	1.6	4.5	2.5	1.09	.99	.79	.75
18825	H11AA1	3089	1	6	Dual infrared diode, NPN photo transistor	1.5	20	30	2.5	.79	.69	.55	.49
18833	H11C3	3046	2	6	Photo SCR output	1.2	14	200	5	.95	.85	.69	.65
114008		3091	12	6	Photo SCR output	1.5	11	400	5	1.15	.95	.85	.75
	H11D1SM	3085	3	6	Isolated FET (200-ohm ON resistance)	1.75	16	30	2.5	2.25	1.95	1.65	1.55
113988		3090	7	6	300V transistor output (surface mount) Schmitt trigger output photocoupler	1.5 1.5	10 1.6	300 STTL/TTL	7.5	.79	.69	.59	.55
114091		3100	14	4	Single channel, slotted interrupter w/ tabs	1.7	60	30	5	.99 1.09	.89	.79	.69
114104		3100	14	4	Single channel, slotted interrupter w/ tabs	1.7	60	30		1.49	.99 1.25	.89 1.09	.79
138034		3102	19	6	Baseless transistor output	0.4	10	30	5.3	.79	.69	.59	.99 .55
	ISP814-3		22	4	Low power AC input transistor output	1.4	20	35	5	1.29	1.15	.99	.89
	ISP815-3		23	4	Low power darlington output	1.4	20	35	5	.99	.89	.79	.75
	ISP817-3		17	4	Low power transistor output	1.4	20	35	5	.89	.79	.69	.65
	ISP827-3		20	8	Low power dual coupler	1.4	20	35	5	1.59	1.45	1.29	1.15
138085	ISP847-3	_	21	16	Low power quad coupler	1.4	20	35	5	2.95	2.75	2.49	2.25
138093	ISTS708		18	4	Reflective opto switch	1.7	40	30	_	2.49	2.29	2.09	1.89
138106	ISTS802	_	16	4	5mm gap interrupter opto switch	1.3	10	30	_	2.10	SALE	1.75	1.55
114083	ISQ203		13	16	Quad channel NPN photo transistor (225 CTR)	1.5	20	30	7.5	2.95	2.49	2.25	1.95
114075	ISQ204		13	16	Quad channel NPN photo transistor (200 CTR)	1.5	20	30	7.5	2.75	2.49	1.95	1.85
	LTH306-1		24	4	Single channel, slotted interrupter w/o tabs	1.6	20	30	-	.99	.89	.79	.69
	LTV713V		3	6	High isolation voltage type, NPN photocoupler	1.4	20	35	5	.45	.35	.25	.19
24900	MCT2	3042	3	6	Diode, NPN photo transistor	1.5	60	30	3.5	.45	.35	.29	.25
24918	MCT6	3086	4	8	Dual channel NPN photo transistor	1.3	100	30	7.5	.85	.75	.65	.59
26278	MOC3010★		5	6	Bilateral triac driver	1.5	50	250	7.5	.65	.55	.45	.39
	MOC3011	3047	5	6	Bilateral triac driver	1.5	10	250	7.5	.59	.55	.45	.39
95038	M0C3021	3048	5	6	Bilateral triac driver	1.5	10	400	7.5	.69	.59	.49	.45
113937		3048	5	6	Bilateral triac driver	1.5	30	400	7.5	.69	.59	.45	.42
26294	MOC3031	3049	6	6	Zero crossing triac driver	1.5	30	250	7.5	1.29	1.15	.89	.79
	MOC3032 MOC3042	3049	6	6	Zero crossing triac driver	1.5	30	250	7.5	1.29	1.15	.99	.89
	MOC3042		6	6	Zero crossing triac driver	1.5	30	400	7.5	1.49	1.25	.99	.89
	OPB3849B		15	4	Zero crossing triac driver	1.5 1.2	30	600	7.5	1.49	1.25	.99 Closeout	.89
28433	PC900V	-	7	6	Single channel, slotted interrupter w/ tabs Schmitt trigger output photocoupler	1.4	20 4	30 STTL/TTL	5	* *	SALE	1.35	.19 1.25
	SFH600-2		3	6	Diode, NPN photo transistor (MCT275)	1.65	60	70	2.8	.45	.35	.25	.19
1.0001	0111000 E												.13
CDC E	Photocall	C	• Or	peratin	ig temperature: -30°C to +70°C • Cadmium Su	ilfide (CD	S) • Solder	ring: 230°C	for 3 seco	onds • '	Weight:	002 lbs	

CDS Photocells

- Operating temperature: -30°C to +70°C
 Cadmium Sulfide (CDS)
 Soldering: 230°C for 3 seconds
 Weight: .002 lbs.
 Generate variable signal based on detection of light levels
 Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

		Part	Product	Rati	ng	Resista	nce (Ω)					Pricing		OEM
		Number	Number	mW	Vp	Light	Dark	Diameter	Lead Spacing	Lead Length	1-9	10-99	100-499	500-999
		136047	CDST05	250	50	10K	100K	0.29"	0.18"	1.50"	\$.75	\$.59	\$.35	\$.29
	A South	136055	CDST08	250	50	10K	100K	0.44"	0.30"	1.50"	.75	.59	.25	.19
		120299	CDS004	250	250	12K	1M	0.43"	0.30"	1.44"	1.79	1.49	1.19	.89
	- 22	136063	CDST18	40	20	10K	100K	0.16"	0.10"	1.50"	.55	.45	.29	.25
120301	120299	120310	CDS002	125	150	25K	2M	0.16"	0.10"	1.44"	1.25	.99	.79	.59
120001	120233	120301	CDS003	150	200	15K	500K	0.28"	0.20"	1.44"	1.69	1.39	1.09	.79





LED, LCD, Bar Graph and Fluorescent Displays

We carry major manufacturers - call for large OEM pricing.

The general advantages of LED displays (compared to incandescent types) are:

LED Displays



• Lower power consumption • Longer lifetime (averaged more than 300,000 hours) • Compact size which is suitable for instrumentation and graphic representations Applications: • Home/consumer appliances • Industrial instrumentation • Indicators and numeric/alphanumeric information display • Indoor/outdoor graphic representations • Soldering bath: not more than 5 seconds @ 260°C













Soldering iron: not more than 3 seconds @ 300°C under 30W







24740 & 24782

33961

24723

32951

118906

104117

						7-Segmen	it nizhi	ays							
Part	Product	Pins/	Compatible with	Character	Illuminated	Buss	Vf	If	med	Wavelength	Decimal		Pricing		OEW Pricing
Number	Number	Leads	Jameco Socket	Height	Color	Polarity*	(Max.)	(Max.)	@ If	nm	Point	1-9	10-99	100-249	250-499
24731	MAN71★	11	37161	.300"	Red	CA	1.6V	20mA	0.3	650	RHDP	\$1.19	\$.99	\$.89	\$.79
24740	MAN72★	11	37161	.300"	Red	CA	1.6V	20mA	0.3	650	LHDP	.99	.85	.75	.69
24782	MAN74★	10	37161	.300"	Red	CC	1.6V	20mA	0.3	650	RHDP	.99	.85	.75	.69
27545	NSN373	16	PC board mounted		Red	2-digit CC	1.7V	10mA	1.6	660	_	.59	.45	.25	.19
33961	TSB3881	16	PC board mounted		Red	4-digit CC	1.7V	10mA	1.6	660	-	8.95	6.95	6.49	5.95
17179	FND357	10	102200	.362"	Red	CC	1.7V	20mA	1.5	655	RHDP			Closeout	.49
81496	5082-7750	11	37161	.430"	Red	CA	1.6V	20mA	1.1	655	LHDP	1.29	1.09	.99	.89
17187	FND503★	10	102200	.500"	Red	CC	1.7V	20mA	0.6	665	RHDP	1.19	.99	.89	.79
17208	FND507★	10	102200	.500"	Red	CA	1.7V	20mA	1.2	665	RHDP	.99	.85	.69	.65
104213	LSD5124-10	10	101282	.560"	Red	CA	2.0V	20mA	1.8	660	RHDP	1.09	.95	.75	.69
24694	MAN6610	18	39335	.560"	Orange Red	2-digit CA	2.0V	20mA	4.0	635	RHDP	1.65	1.39	1.15	.99
24707	MAN6640	18	39335	.560"	Orange Red	2-digit CC	2.0V	20mA	4.0	635	RHDP	1.75	1.49	1.25	1.09
24715	MAN6710★	18	39335	.560"	Red	2-digit CA	2.2V	20mA	1.6	695	RHDP	1.65	1.39	1.15	.99
24723	MAN6740★	18	39335	.560"	Red	2-digit CC	2.2V	20mA	1.4	695	RHDP	1.65	1.39	1.15	.99
18737	HP3401★	13	39335	.800"	Orange Red	CA	1.6V	20mA	0.9	655	RHDP	1.49	1.29	.75	.59
117997	LTS3401AG	13	39335	.800"	Green	CA	2.1V	20mA	2.4	565	RHDP	1.49	1.29	.75	.59
18753	HP3405★	13	39335	.800"	Red	CC	1.6V	20mA	0.9	655	LHDP	1.49	1.29	.95	.89
97172	CSS1014H	10	102200	1.0"	Red	CA	2.2V	20mA	3.2	695	RHDP	1.75	1.49	1.25	1.09
97181	CSS1015H	10	102200	1.0"	Red	CC	2.1V	20mA	2.0	697	RHDP	1.75	1.49	1.25	1.09
97199	CSS2314D	10	102200	2.24"	Red	CA	7.0V	20mA	60.0	660	RHDP	6.95	5.95	4.95	4.49
97201	CSS2315D	10	102200	2.24"	Red	CC	7.0V	20mA	60.0	660	RHDP	6.95	5.95	4.95	4.49
105591	CSS4013E	10	PC board mounted	4.0"	Orange Red	CC .	10V	20mA	20.0	635	RHDP	14.95	13.49	11.95	10.95
						Dot Matri	x Displa	ivs							
32951	TII 311	11	37161	300"	Rad Av	7 Hay characte	r 5 0\/	FmΛ	0.1	660		\$40.0E	¢0.05	60 05	\$7.0E

	Dot matrix displays															
3	32951	TIL311	11	37161	.300"	Red	4x7 Hex character	5.0V	5mA	0.1	660		\$10.95	\$9.95	\$8.95	\$7.95
	18906	LTP747R	12	37161	.700"	Red	5 x 7 AC/CR	1.7V	20mA	2.0	655	-	1.49	1.29	.95	.89
	36506	LTP2157AHR	14	101282	1.8"	Ul. Red	5 x 7 CC/AR	1.7V	20mA	12.0	660		1.49	1.29	.95	.89
	100028	LTP2158DHR	14	101282	2.3"	Red	5 x 8 AC/CR	1.8V	20mA	4.0	660		1.75	1.49	1.09	.99
	35212	CSM-88221E	16	101282	2.3"	Orange Red	8 x 8 CC/AR	2.1V	20mA	4.0	635		2.49	2.25	1.75	1.49

Alpha-Numeric Displays

ш																
	33988	TSM2416	18	39335/101282	.160"	Red	4-digit 17-segment	5.0V	65mA	1.0	655				Cleseout	\$12.95
ı	136514	LTP537G	18	39335/101282	.500"	Green	CA	1.7V	10mA	2.0	565	RHDP			Closeout	.49
ı	140898	LSD5555-10	18	39335	.500"	Red	CC	2.4V	20mA	3.4	660	RHDP	1.95	1.75	1.49	1.25
ı	140901	LSD5565-10	18	39335	.500"	Red	CA CA	2.4V	20mA	3.4	660	RHDP	1.95	1.75	1.49	1.25
ı	105401	DL2614	13	39335	.540"	Red	2-digit CC	1.7V	20mA	1.0	655	RHDP			Clossout	.49
ı	104117	LT3784E	18	39335	.540"	Orange	2-digit CC	2.1V	20mA	2.6	635	RHDP			Closeout	.99
ı	108441	C5412-11	18	39335	.540"	Red	2-digit CC	2.1V	20mA	2.6	660	RHDP			Closeout	.49

*CA-Common Anode / CC-Common Cathode • LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point • AC/CR-Anode Column/Cathode Row

Epson Real Time Clock Modules

· Frequency stability: ±50ppm

29591 Specifications:

- Built-in 32.768kHz quartz crystal · Addressable counter start, stop,
- and reset function
- 12 to 24-hour format
 Automatic leap year setting
- · Microprocessor compatible 4-bit data bus

95530 Specifications:

- The built-in quartz crystal makes board design easy
- Direct bus-compatibility (120 nsec access time)
- Interrupt masking
- · 30 seconds error adjustment function
- 18-pin dual in-line plastic package

Part No.	Product No.	Description	1-9	10-24
29591	RTC58321B	16-pin clock mod.	\$7.49	\$6.75
95530	RTC72421B	18-pin clock mod.	6.95	6.25

0.5" 3½ & 4-Digit Field **Effect LCD Displays**

Reflective LCD gives a dark display on a light background

40-pin package (no connector required)

Compatible with socket P/N 101282 (2) (pg 46)

 Size: 2.0"L x 1.2"H x 0.1"D • Pin spacing: 0.1" centers

32230: • Digital voltmeters, thermometers, pressure gauges, timers and clocks 17110

Can be used with Intersil's 7106CPL (P/N 43748, pg 9) 17110: • Digital multimeters, thermometers, pressure gauges, timers, clocks (12 or 24 hour format) and frequency counters

Part No.	Description 1-9	10-24
32230	3½-digit field effect LCD w/ pins\$8.95	\$6.95
17110	4-digit field effect LCD w/ pins 9.95	7.95

10-Segment Bar Graph Displays

With On-Board Driver IC

Bar or dot display mode

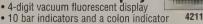
externally selectable by user Packages are end-stackable



for extended displays . Analog input 1.2 to 12V Size: 2.0"L x 0.9"H x 0.2"D (.160"L x .063"H per bar) Part No. Product No. Description 1-9 10-49 50-99

33996 TSM3914 Linear function.....**\$7.95 \$6.95 \$5.95 34016** TSM3916 VU-meter function**9.95 8.95 7.95**

Futaba 0.5" Blue Green **Fluorescent Display**



 Size: 3.9"L x 1.6"H x 0.8"W (leads: .75" long) Part No. Description

42112 4-digit display w/ colon..... \$.99 25929 4/6-digit alarm w/ snooze clock chip 5.95



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242

Website http://www.jameco.com



4x40 and 2x16 Serial Backpack LCD Display Modules

The backpack is a daughterboard that receives data serially and displays it on the LCD module.

 Instruction codes for character generation, cursor control, scrolling, printing etc.

(examples for stamps in PBASIC included)

ideal for use with BASIC Stamps, 80C52-BASIC controllers and PCs!

133129:

· 2x16 high-contrast supertwist display

· One-year warranty

- Power requirement: 4.8 to 5.5VDC @ 3mA
- · Serial input: RS232, or inverted CMOS.

133129 TTL at 2400 or 9600 bps (jumper configurable)

Size: 3.1"L x 1.4"W

. Weight 0.1 lbs.

KAAAAAAAAAAAAAA

136485

 4x40 high-contrast supertwist display with unique "big number" mode -



prints 1" numerals automatically

- Power requirement: 5VDC @ <10mA
- Serial input at 1200, 2400, 4800 or 9600 bps (DIP switch)
- Size: 7.5"L x 2.2"W
 Weight 0.2 lbs

Part No.	Description	1-4	5-9
133129	2x16 serial L	CD display\$59.95	\$53.95
136485	4x40 serial L	.CD display 169.95	152.95

URT Backlit LCD Parallel Displays

9600/2400 bps

· Character size: 0.11"W x 0.19"H Power require-



ment: (typical) 5V @ 2mA

Weight: 0.1 lbs One-year warranty

144143: 24 x 2 character display

Module size: 4.6"L x 1.4"W x 0.06"T

Display size: 3.7"W x 0.7"H

144151: 16 x 2 character display Module size: 3.4"L x 1.2"W x 0.06"T

Display size: 2.4"W x 0.6"H

Lamps

Part No.	Description 1-4	5-9
144143	24 x 2 parallel LCD display SALE	\$44.95
144151	16 x 2 parallel LCD display39.95	35.95

0.6" 3½ LCD Digital Panel Meters

1.8:8.8

108388

· Single 9VDC operation

· Maximum input: 199.9mVDC

 Maximum display: 1999 counts

Automatic polarity indication

Input impedance: >100MΩ

 Accuracy: ±0.5% Supply voltage: 9-12VDC

Size: 2.7"L x 1.7"W
 Weight: 0.1 lbs

Part No.	Product No.	Description	1-4	5-9
108388	DPM188★	3.5 LCD DPM	\$14.95	\$11.95
146835	DPM188BL	3.5 LCD (Backlit)17.95	15.95

Aluminum Enclosure for Digital Panel Meter

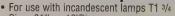
· Compatible with P/N 108388 digital panel meters (above)

· Display window size: 1.8 W x 0.8 H

· Includes connecting strips and screws

Case size: 6.0"W x 2.8"D x 2.8"H • Weight: 0.4 lbs Part No. Product No. Description DPM enclosure.....\$9.95 138974 MPB19

JKL Colored Sleeves for Incandescent Lamps



Size: .31"L x .19"Dia.

Part No. Product No. Color 1-9 10-99 100-999 1000+ Blue..... SALE 146288 39085A \$.25 \$.12 146270 39081A Red .12

JKL Glass Wedge Base Lamps Voltage: 6.3VDC **145333:** Use w/ push-in socket (P/N 145568 – below)

Lumens: 5.03

· Average life hrs: 20,000 145541: Use w/ push-in socket (P/N 145576 - below)

Lumens: 5.03
Average life hrs: 20,000

145541

142244

146202

145550: Use w/ push-in socket (P/N 145584 - below) Lumens: 8.17
Average life hrs: 10,000

Size Current (mA) 1-9 10-99 100-999 \$.39 145333 T1 1/2 200.....\$.49 \$.35 \$.29 T1 3/4 145541 400......**.49** .39 .35 .29 T3 1/4 .39 .35 .29 250.

JKL Push-In Sockets NEW Description

1-9 10-99 100-999 1000+ 145568 T1 1/2 push-in socket \$.75 \$.65 145576 T1 3/4 push-in socket 1.15 .79 .69 145584 T3 1/4 push-in socket 1.15 .79 .69

JKL Fluores. Lamp Power Supplies

This DC inverter is designed especially for cold cathode fluorescent lamps. 142252:

Input voltage: 12VDC

 PCB size: 1.8"L x 0.8"W x .04"Thick
 Weight: .03 lbs 146190: • Input voltage: 5VDC

 PCB size: 1.7"L x 0.8"W x .04"Thick • Weight: .02 lbs. Part No. Product No. 10-24 1-9 FPWR1 142252 \$17.95 \$15.95 146190 BXA50117.95 15.95

JKL Single Lead Tipless Type Fluorescent & Ultra Violet Lamps

World's smallest fluorescent and ultra violet lamps. These energy efficient miniature lighting innovations assure you of bright, uniform output, long life, cool operation and unmatched reliability, with the convenience of off-the-shelf availability.

142244/142965: compatible with P/N 142252 (above right) 146165/146157/146181/146173: compatible with P/N 146190 (above right)

146202: requires $15K\Omega$ series resistor, runs off line voltage

Linnieza	ent Lamps	" Circuit v	ortage						146173
Part Number	Starting Volt. (Vrms)	Lamp Volt. (Vrms)	Intensity (nt)	Lamp Current (mA)	Size (in.) L x Dia.	Weight (lbs.)	1-9	10-24	25-49
142244	390	170	3500	5 (12 max.)	2.0 x .25	0.01	\$12.95	\$11.49	\$9.95
146165	1200	520	28000	` 5.0 ´	10.0 x .12	0.10	17.95	15.95	14.49
146157	850	345	2400	5.0	6.3 x .12	0.07	14.95	13.49	11.95
146202	75 (max.)	115*	_	3.0	0.9 x .23	0.01	1.95	1.75	1.59

Ultra Violet Lamps

	Part Number	Starting Volt. (Vrms)	Lamp Volt. (Vrms)	Total Output Flux	Lamp Current (mA)	Size (in.) L x Dia.	Weight (lbs.)	1-9	10-24	25-49
1	142965	900	195	.25mW/cm2 @ 1"	2.5	2.0 x .12	0.01	\$12.95	\$11.49	\$9.95
)	146181	750-950	500	.25µW/cm2 @ 1"	5.0	4.7 x .12	0.05	11.95	10.95	9.95
	146173	700-900	140	.25µW/cm² @ 1"	2.5	1.0 x .12	0.03	9.95	8.95	7.95

Incandescent

display 39.95	35.95	146173	700-9
		elektronistis (
	-	25	



A principal and the least	134720	Fig. 1	Fig. 2	Fig. 3	P Fig. 4	В—
Dia	.(Ins./mm)	Dimensions (Ins.)		Pr	icina	OFM

	David Mar	D . I . I II				Difficultion (ma.)		1 Hong			OLIVI				
	Part No.	Product No.	Fig.	Size	Description	A	В	C	D	E	Vf @ If (mA)	1-9	10-99	100-999	1000
	141057	6833	1	T 3/4	Incandescent lamp 1" lead wire	.08/2.2	1	1.2	0.2		5V @ 60mA	\$.59	\$.49	\$.39	\$.35
	134738	H800	4	T1	Mini incandescent lamp	.14/3.5	10		0.4		5V @ 70mA	2/pk	4.10	(A)	.10
yr.	134720	H801	4	T1	Mini incandescent lamp	.13/3.2	7		0.5		3V @ 70mA	3/pk		Tr.	.10
1000	134746	H802	4	T1	Mini incandescent lamp	.13/3.4	4.5		0.5	marian	10V @ 70mA	4/pk		Climani	.10
	141065	2200	1	T1 3/4	Incandescent lamp 1" lead wire	.19/4.9		1.5	0.5	20305 00	5V @ 60mA	.39	.35	.29	.25
	141073	2182	1	T1 3/4	Incandescent lamp 1" lead wire	19/4.8	1	1.5	0.5	- Nobel 16	14V @ 80mA	.29	.25	.22	.19
	141081	2187	1	T1 3/4	Incandescent lamp 1" lead wire	.19/4.8	1	1.5	0.5		28V @ 40mA	.35	.29	.25	.22
	141006	7361	2	T1 3/4	Incandescent lamp bi-pin base	.18/4.7	0.3	0.8	0.3	0.3	5V @ 60mA	.69	.59	.49	.39
	141014	7382	2	T1 3/4	Incandescent lamp bi-pin base	.19/4.7	0.3	0.9	0.3	0.3	5V @ 60mA	.69	.59	.49	.39
	141022	7387	2	T1 3/4	Incandescent lamp bi-pin base	.19/4.8	0.3	0.8	0.3	0.3	28V @ 40mA	.59	.49	.39	.35
	141031	330	3	T1 3/4	Incandescent lamp flanged	.22/5.6		0.6	0.3	0.2	14V @ 80mA	.49	.39	.35	.33
199	141049	387	3	T1 3/4	Incandescent lamp flanged	.21/5.4		0.6	0.3	0.2	28V @ 40mA	.49	.39	.35	.29
-38	27351	NE2	A					0.0			65-120VDC @ 130-470mA/			.00	
	2/331	NEZ	4		Neon lamp (w/ $150k\Omega$ res. in series)	.197/5	1.2		0.38		65-120VAC @ 150-500mA	.19	.15	.09	.07



\$1,39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less

Documentation available at flp. Jameco.com Also available at your local JIM-PAK retailer - see page 128

99.7% Stock **Availability!**

Conxrite® LED **Connectors**



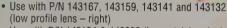
T1 LED Connectors

 Use with P/N 143212. D.24 D.17 143204. 143191 and 143183 (low profile lens - right)

Use with P/N 143175 & 143221 (lens retaining ring)

Part No.	Product No.	Lgth (in.)	1-9	10-99	100	500
143079	BE2104	4.5	\$1.69	\$1.59	\$1.49	\$1.39
143087	BE2108	8.5	1.69	1.59	1.49	1.39
143095	BE2112	12	1.69	1.59	1.49	1.39
143108	BE2118	18	1.95	1.79	1.69	1.59
143116	BE2124	24	2.49	2.29	1.95	1.79
					1000	CARGORA .

T13/4 LED Connectors



Use with P/N 143124 & 143239 (lens retaining ring)

Part No.	Product No.	Lgth (in.)	1-9	10-99	100	500
143028	CE2104	4.5	\$1.69	\$1.59	\$1.49	\$1.39
143036	CE2108	8.5	1.69	1.59	1.49	1.39
143044	CE2112	12	.1.69	1.59	1.49	1.39
	CE2118	18	1.95	1.79	1.69	1.59
143061	CE2124	24	2.49	2.29	1.95	1.79
		4 .				

Design Engineer's 139 Piece LED Hardware Assortment

LED panel lenses and circuit mounts

Allows you to mount LEDs for different applications and designs. Comes with colored round and square lenses. Includes PCB lens mounts for horizontal or vertical mounting. Eliminates soldering

shrink tubing and terminal crimping.

- 139 piece hardware kit
- · Red. vellow, green, blue and clear lenses
- · Mounts and pre-wired solderless LED indicators
- · LED PCB mounts, sockets and standoffs
- · Clear plastic kit with dividers
- Size: 8.5"L x 4.5"W x 1.5"H
 Weight: 0.4 lbs.

Part No. Description 140759 Engineer's LED hardware kit \$22.95 \$19.95

Optoelectronics Book (1997)

Prompt Publications: If you, or someone you know, has an interest in optoelectronics, this informative book is for you. Written and designed as a self-teaching text, it covers the basic concepts of optoelectronics, photometrics, and optics.



 264 pages
 Size: 10.9"L x 8.3"W
 Weight: 1.5 lbs. Part No. Description 1-4 5-9 139547 Optoelectronics Book......\$29.95 \$26.95

Cliplite® LED Mounting Hardware

- Material: lens polycarbonate; spacer nylon
- Increases apparent brightness up to 125% and viewing angle up to 180° with either diffused or nondiffused LEDs
- Helps guard components from electrostatic discharge up to 16kV while affording the LED physical protection
- .375" centers spacing . Weight: .001 lbs.



29612



Cliplite® T13/4 Lens

Use with P/N 143028, 143036, 143044, 143052

Color

.29"Dia. Lens Retaining Rings

.17"06

.08"\$.06 \$.055

\$.20

.20

.20 .18

.20 .18

.055

PCV220 - thru hole, PCH330 - thru hole, vertical socket horizontal socket

1-9 10-99

\$.55

\$.18

.18

\$.05 \$.045

.05 .045

143255

\$ 16

.16

.16

.16

and 143061 (LED T13/4 connectors - left)

Use with P/N 143124 and 143239

143167 CMC321GTP Green .. \$.22

143159 CMC321YTP Yellow .. .22

143141 CMC321RTP Red22

143132 CMC321CTP Clear.......22

P-C-Lite®

Sockets for

.197"Dia. LED

P/N 143255: .24"L x .24"W x .33"H

Product No.

P/N 143263: .31"L x .24"W x .24"H

Part No. Product No. Thickness 1-9 10-99

(lens retaining ring)

Low Profile

Lens with

Fresnel Rings

Part No. Product No.

143124 RNG234

143239 RNG268

 Use with 3mm or 5mm LED,

.017"-.030" round

or square leads



					Mounting	Panel		Pricing		OEM
Part No.	Product No.	Description	Color	Figure	Hole (in.)	Thickness	1-9	10-99	100	500+
14277	CTP280★	T13/4	clear	1	.25	.063"125"	\$.29	\$.25	\$.22	\$.19
109137	GTP280	T13/4	green	1	.25	.063"125"	.29	.25	.22	.19
29612	RTP280	T13/4	red	1	.25	.063"125"	.29	.25	.22	.19
124927	CLB300CTP	T13/4	clear	2	.25	.031"25"	.29	.25	.22	.19

Cliplite® T1 Lens

- Use with P/N 143079, 143087, 143095, 143108 and 143116 (LED T1 connectors - left)
- Use with P/N 143175 and 143221 (lens retaining ring)

Low Profile Lens with Fresnel Rings

Part No. Product No.

143212 SMC170GTP Green

143204 SMC170YTP Yellow

143191 SMC170RTP Red ..

143183 SMC170CTP Clear21





(1	.06 62mm	27		
1-9	10-99	100	500	
\$.21	\$.19	\$.17	\$.15	
21	.19	.17	.15	
21	.19	.17	.15	

.17

.19

.16"Dia, Lens Retaining Rings

Part No.	Product No.	Thickness	1-9	10-99	100	500
143175	RNG132	.08"\$.06	\$.055	\$.05	\$.045
143221	RNG165	.15"	.06	.055	.05	.045

P-C-Lite® Right Angle **LED Mount**

PCB mounting of Bi & Tri-lead LEDs



PCB mounting of

Form leads w/ the mount, snap leads into retaining tabs

Bi & tri-lead LEDs can be combined w/ dove-tail interlocking feature

Use with 5mm LED

Dime

nsions: .24"L x .24"W	x .18"	Dia.	
Product No.	1-9	10-99	100

143247	PCH175	\$.10	\$.09	\$.08	\$.07
Jamec	o LED	Mounting	Hard	lwar	ρ

 P/N 95521: for use with rectangular LEDs with case size 0.244"L x 0.145"W x 0.270"H



Part No.

143255

143263





\$.49

\$.45

- · Weight: .001 lbs.

Part No.

95513





PCV220\$.59

PCH33059

101		_ i iiiiiiii		ULITI
ckness	1-9	10-99	100	1000+
to .070"	\$.15	\$.12	\$.09	\$.07
to .125"	.15	.12	ng	.07

					Mounting	Panei		Pricing		_UEIN
ı	Part No.	Product No.	Description	Color	Hole (in.)	Thickness	1-9	10-99	100	1000+
ı	95513	LMH100★	T1 snap-in	black	.185	up to .070"	\$.15	\$.12	\$.09	\$.07
ı	23077	LMH200★	T13/4 ring & clip	black	.257	up to .125"	.15	.12	.09	.07
Į	95521	LMH250	Rect. snap-in	black	.306 x .202	up to .092"	.15	.12	.09	.07

Jameco LED Indicators

- · Easy panel installation
- Panel indicators
- · Status indicators
- Instrument indicators
- · Weight: .01 lbs.









Figure 1

Figure 2

Figure 3

Figure 4

ting	Panel		Pricing		0EM
(in.)	Vf @ If (mA)	1-9	10-99	100	250-
.18	2V @ 20mA	\$.99	\$.89	\$.75	\$.59

						Monuma	Fallel		Pricing		OFIN
	Part No.	Product No.	Description	Color	Figure	Hole (in.)	Vf @ If (mA)	1-9	10-99	100	250+
ı	141090	L1211RD	Black rect.	red	1	.26 x .18	2V @ 20mA	\$.99	\$.89	\$.75	\$.59
	141102	L1212RD	Round plastic	red	2	.24	2V @ 20mA	.99	.89	.79	.69
	141111	L9225RD	Chrome bezel	red	3	.23	2V @ 20mA	.79	.69	.59	.49
9	141129	L913RD	Chrome bezel	red	4	.24	2V @ 20mA	.99	.89	.79	.69
	141137	L917RD	Chrome bezel	red	4	.31	2V @ 20mA	.99	.89	.75	.59
_											

ECG® Replacement Semiconductors



Ĺ	Diodes									
Part No.	Product No.	Case Fig.	Description	1-9	10-99					
144320	ECG177	DO-35	Si, general purpose, 200PRV, .16A	\$1.09	\$.99					
144346	ECG587	DO-41	Si, ultra fast switch, 200PRV, 1A	1.15	1.05					
144338	ECG588	DO-27	Si, ultra fast switch, 200PRV, 3A	1.75	1.59					
			Zanas Diadas							

Zener Diodes		
Si, ultra fast switch, 200PRV, 3A	1.75	1.59
Si, ultra fast switch, 200PRV, 1A	1.15	1.05
Si, general purpose, 200PRV, .16A	\$1.09	\$.99

	Zener Diodes									
No.	Product No.	Case Fig.	Description	1-9	10-99					
362	ECG5077A	D0-41	18V, 1W, 5%	\$2.25	\$1.99					
354	ECG5127A	DO-41	12V, 5W, 5%	2.19	1.95					

			Recitifiers		
Part No.	Product No.	Case Fig.	Description	1-9	10-99
144303	ECG166	Z23	Si, bridge, 100 PRV 2A	\$1.95	\$1.75
144493	ECG506	Z6	Si, fast recovery, 1400PRV, 2A	1.75	1.59
144485	ECG525	D0-27	Si, fast recovery, 2000PRV	5.95	5.35
144477	ECG552	DO-41	Si, general purpose, 600PRV, 1A	1.49	1.35
144506	ECG558	D0-41	Si, general purpose, 1500PRV, 1A	2.49	2.25
144469	ECG580	D0-41	Si, general purpose, 600PRV, 3A	2.49	2.25
144442	ECG5304	Z22	Si, bridge, 400PRV, 1.5A	1.75	1.59
144451	ECG5324	Z25	Si, bridge, 400PRV, 25A	6.95	6.25
144418	ECG5342	Z25	Si, bridge, 600PRV, 40A	10.95	9.95
144434	ECG5344	Z25	Si, bridge, 1000PRV, 40A	12.95	11.49
144389	ECG5812	Z26	100PRV, 6A	2.49	2.25
144397	ECG5814	Z26	400PRV, 6A	2.75	2.49
144426	ECG5815	Z26	600PRV, 6A	3.95	3.59
144371	ECG5817	Z26	1000PRV. 6A	3.95	3.59

			SCRs		
Part No.	Product No.	Case Fig.	Description	1-9	10-99
144514	ECG5424	TO-220	400Vrm, 4.7A, high speed	\$6.49	\$5.79
144522	ECG5427	TO-202	400Vrm, 4A, sensitive gate	2.25	1.99
144311	ECG6408	D0-7	DIAC, bilateral trigger diode, Vbo=32V	1.09	.99

600PRV, 40A

Part No. Product No. Case Fig Description 10-99 PNP, audio output, drive, 80BVceo 144776 ECG129 TO-39 \$2.75 \$2.49 144611 ECG152 TO-220 NPN, audio, general purpose amp 60BV_{ceo} 2.49 2.25 144725 ECG154 TO-39 NPN, high voltage video output, 300BV_{ceo} 3.35 2.99 144717 ECG157 TO-126 NPN, high voltage audio amp, 300BV cer 2.49 2.25 144637 ECG165 TO-3 NPN, color TV horizontal output, 1400BV_{ceo} (CES) 8.95 7.95 144565 ECG184 TO-126 NPN, audio power amp 2.25 1.99 144670 ECG194 TO-92 NPN, gen. purpose HV amp/switch 1.09 .99 NPN, fast switching, HV, 1500V, 8A 144661 ECG2300 TO-218 7.49 6.75 144733 ECG2312 TO-220 NPN, high volt., high speed switch 5.59 4.95 144653 ECG2315 TO-220 NPN, Si, fast switching, darlington, 400V, 8A 5.95 5.35 144696 ECG2318 TO-218 NPN, Si, high voltage switch 9.95 8.95 144590 ECG2328 TO-3PL NPN, Si, audio power output 7.25 6.49 144581 ECG2329 TO-3PL NPN, Si, audio power output 6.95 6.25 144629 ECG2331 **TO-3PM** NPN, Si, color TV horiz deflection w/ internal damper diode 6.95 6.25 144557 ECG289A TO-92 NPN, Si, audio power amp & switch 1.39 1.25 NPN, Si, audio amp & driver 1.59 144531 ECG293 T-16 1.75 144792 ECG32 TO-92M PNP, Si, TV sound & vertical output 4.49 3.99 144573 ECG36 TO-3PJ NPN, Si, audio power amp 5.95 5.35 144549 ECG373 TO-126 NPN, Si, audio amp & driver 2.75 2.49 144750 ECG377 TO-220 NPN, Si, power amp, driver, switch 4.75 4.25 144784 ECG378 TO-220 PNP, Si, power amp, driver, switch 3.35 2.99 144768 ECG379 TO-220 NPN, Si, power amp, hi volt. switch 7.49 6.75 144602 ECG382 TO-92M NPN, Si, audio frequency driver 2.49 2.25 144688 ECG388 TO-3 NPN, Si, high power audio amp 9.95 8.95 144741 ECG396 TO-39 NPN, Si, power amp & hi speed switch 3.35 2.99 144709 ECG399 T-16 NPN, Si, high voltage amp, video 3.35 2.99 144645 ECG89 TO-3 NPN, Si, color TV horizontal output 11,49 9.95

Referee Cross Reference NEW **DOS Software**

ICs, Transistors, Diodes

144400 ECG5994 DO-5

Cross reference hundreds of thousands of devices from transistors, ICs, diodes and ware provides pin-outs, ECG® numbers, NTE® numbers and SK numbers for many parts.



Part N

1443

1443

· Software utilities include unit conversion, standard resistor value tables, resistor color generator with tolerance, and wire gauge tables

 Minimum system requirements: 386 compatible or better, 4MB RAM, 25MB hard disk space and DOS 5.0+ . Weight: 0.8 lbs

Part No.	Description	Price
144979	Referee Cross-Reference	\$109.95

Electronics Projects for the 21st Century NEW

Prompt Publications If you are an electronics hobbyist with interest in science and technology, this book is a welcome addition in your library. Filled with nearly 2 dozen projects such as

Gieger counter, laser power supply for Holography, Pinhole camera and more are listed. The book includes a brief history of the project you are about to create, parts list, and schematic diagram. (256 pages)

 Size: 9.3" x 7.5"
 Weight: 1.0 lb. Description Elec. Proj. for the 21th Cen. \$19.95 145461 \$17.95

Infrared Remote Control Receiver Modules

 Used in TVs, VCRs, audio equip... car stereos and home computers

8.95

Single unit module which incorporates a PIN diode and a receiving preamplifier IC

5VDC @ 2mA • 940nm wavelength

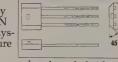
Excellent mechanical strength and electrical stability

Size: 0.6"L x 0.6"W x 0.5"H
 Weight: 0.1 lbs.

Part No.	Description 1-9	10-99	100+
106382	32.7kHz infrared remote		
	receiver, side view\$3.39	\$2.79	\$2.29
131908	38.0kHz infrared remote		
	receiver, side view3.25	2.25	1.95
139889	37.9kHz infrared remote		
	receiver, top view3.25	2.25	1.95
-			

III Unipolar Hall Effect Sensor

On-chip temperature compensation circuitry minimizes shifts in ON and OFF points and hysteresis over temperature and supply voltage.



106382

Output furns magnetic south to branded side of package, output turns high if magnetic field is removed. TO-92UA style package.

Frequency	Supply Voltage	Cont. Ou Curre		On/Off (ma point B	
DC-15KHz	3.8-24V	30m	A	21.9 /	14
Part No.	Product No.	1-9	10-99	100-999	1000+
145761	HAL508UAC	\$.79	\$.69	\$ 59	\$ 49

ECG® Master Replacement NEW Guide and Software (1996)

The Guide features approx. 294,000 crosses and over 390 new devices New Instant Cross software gives ECG® replacement, description, case style, and special notes. Over 4,000

Part No.	Description	Price
146819	ECG Master Replacement Guide	\$9.95
	ECG Instant Cross software (Win®)	

Front Flip Down Plastic Case

· Drawers open and close simultaneously

Drawers can be subdivided into 24 compartments or upon your needs

Wall mountable

· Case color: black; drawer color: red

 Size: 13.5"L x 3.8"W x 14.3"H · Weight: 2.8 lbs Part No. Description 10-99 142990 Front flip down case .. \$19.95 \$17.95 \$15.95

Hitachi Proximity Sensor

Sensor proximity of ferrous and nonferrous metals. Input: +5VDC



Output: 0.4VDC level change · 3 leads

Size: 3.5"L x 0.6"W x 0.5"H · Cord length: 22'

Description 10-99 Proximity sensor\$1.95 117487 \$1.49 \$.99



\$1.39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less



Documentation available at itp.jameco.com

99.7% Stock



















4,	14-pi	П
DI	P Case	9

TO-3 Case

TO-18 Case TO-39 Case

TO-72 Case TO-92 Case TO-126 Case

TO-220/ TO-220AB Case

TO-237 Case

Dii ou	30				Ouse						
Part Number	Product Number	Case	Description	V _{ceo}	Min. hfe @ l _c	Typ. or Max F _t (MHz)	NTE/ ECG NO.	1-9	Pricing 10-99	100-999	OEM Pricing 1000+
120221		TO-18	NPN photo transistor w/ lens	70	N/A	0.11	Lou No.	\$1.09	\$.89	\$.79	\$.69
26462	MPSA06	TO-92	NPN medium power	30	50 @ 10mA	125	287	.16	.12	.07	.06
26489	MPSA13	TO-92	NPN power darlington	30	5K @ 10mA	125	46	.19	.15	.11	.08
33021	TIP29A	TO-220	NPN power transistor	60	15 @ 1A	0.5	291	.49	.39	.35	
33030	TIP30A	TO-220	PNP power transistor	60	15 @ 1A	0.5	292	.49	.39	.35	.32
	TIP30C	TO-220AB	PNP power transistor	100	40 @ 200mA	3	292	.59	.49	.45	.39
33048	TIP31A★	T0-220	NPN power transistor	60	10 @ 3A	0.5	291	.49	.39	.35	.32
33064	TIP32A★	TO-220	PNP power transistor	60	10 @ 3A	0.5	292	.49	.39	.35	.32
33081	TIP41A★	T0-220	NPN power transistor	60	15 @ 3A	1	331	.59	.49	.45	.39
33101	TIP42A★	TO-220	PNP power transistor	60	15 @ 3A	1	332	.59	.49	.45	.39
	TIP42C	TO-220AB	PNP power transistor	100	30 @ 300mA	3	332	.79	.69	.59	.55
32977	TIP102★	T0-220	NPN power darlington	100	1K @ 3A		2343	.75	.59	.45	.39
32985	TIP106	TO-220	PNP power darlington	80	1K @ 3A		2344	.75	.59	.49	.45
32993	TIP120★	TO-220	NPN power darlington	60	1K @ 3A		261	.75	.59	.49	.45
120416	TIP122	TO-220	NPN power darlington	100	1K @ 3A	_	261	.75	.59	.49	.45
33013	TIP125★	TO-220	PNP power darlington	60	1K @ 3A		262	.59	.49	.45	.39
38228	2N2219A	TO-39	NPN general purpose	40	100 @ 150mA	300	128	.49	.39	.35	.32
28628	PN2222★	T0-92	NPN general purpose	30	100 @ 150mA	250	123AP	.16	.12	.09	.07
38236	2N2222A★	TO-18	NPN general purpose	40	100 @ 150mA	250	123A	.35	.29	.25	.22
26446	MPQ2222	14-pin DIP		40	100 @ 150mA	200	2321	.85	.69	.59	.55
28644	PN2907★	TO-92	PNP general purpose	40	100 @ 150mA	200	159	.13	.10	.08	.06
38279	2N2907A★	T0-18	PNP general purpose	60	100 @ 150mA	200	129P	.35	.29	.25	.22
26454	MPQ2907	14-pin DIP		40	100 @ 150mA	200	2322	.75	.59	.45	.39
25831	MJE2955T★	T0-220	PNP power transistor	60	20 @ 4A	2	332	.75	.59	.49	.45
38295	2N3053	T0-39	NPN general purpose	40	25 @ 150mA	100	129	.75	.59	.49	.45
25857	MJE3055T★	TO-220	NPN power transistor	60	20 @ 4A	2	331	.75	.59	.49	.45
38308	2N3055★	T0-3	NPN power bipolar, epitaxial base	60	15 @ 10A	0.01	130	.85	.69	.59	.55
38324	2N3772★	TO-3	NPN power bipolar, epitaxial base	40	15 @ 4A	0.05	181	1.65	1.45	1.15	1.05
140151	2N3773	T0-3	NPN power audio	140	15 @ 8A		284	1.95	1.75	1.55	1.39
	2N3904★	TO-92	NPN general purpose	40	100 @ 10mA	300	123AP	.12	.09	.06	.05
38375	2N3906★	TO-92	PNP general purpose	40	100 @ 10mA	250	159	.12	.09	.07	.06
38421	2N4401★	TO-92	NPN general purpose	40	100 @ 150mA	250	123AP	.16	.12	.07	.06
38447	2N4403*	TO-92	PNP general purpose	40	100 @ 150mA	200	159	.16	.12	.07	.06
140134	2N6725	T0-126	NPN darlington	50	25000 @ 200mA	100		.59	.49	.45	.39
38480	PN5179	TO-92	NPN high frequency transistor	15	25 @ 3mA	2000	229	.35	.29	.25	.22
140433	2N5771	TO-92	PNP high speed general purpose	15	50 @ 10mA	700	5688	1.65	1.45	.99	.89
140361	2N6727	T0-237	PNP power transistor	40	55 @ 10mA	50	129P			Closeout	.39
140409	2N6039	T0-126	NPN power darlington transistor	80	750 @ 2A	_	253			Closeout	.49
140396	2N6388	TO-220AB	NPN power darlington transistor	80	1000 @ 5A		263	.89	.79	.69	.59
140388	2N5109	TO-39	NPN RF broad band transistor	20	40 @ 50mA	1200	278	1.65	1.45	1.25	1.09
140353	2N6488	TO-220AB	NPN power audio transistor	80	20 @ 5A	5	332			Closedul	.59
140373	2N5179	T0-72	NPN low noise UHF transistor	12	25 @ 3mA	900	316	.79	.69	.59	.55
				t Transis	stors (SMT) 10 p						

Sullace	Monit	11911212	1012	OINI I) to pc. min.

94941	PN2222SM	S0T-23	NPN general purpose	30	100 @ 150mA	250			\$.16	\$.12	\$.09
94959	PN2907SM	SOT-23	PNP general purpose	40	100 @ 150mA	200	_	_	.19	.13	.11
94967	2N3904SM	S0T-23	NPN general purpose	40	100 @ 10mA	300	_	_	.19	.13	.11
94975	2N3906SM	SOT-23	PNP general purpose	40	100 @ 10mA	250		_	.16	.10	.09

J-FFT Transistors

				O I E I II dile	101010						
Part	Product			BV _{GS} (V)min	I _{DSS} (max)	VP (max)	NTE/		Pricing		OEM Pricing
Number	Number	Case	Description	@ IGuA	(mA) @ V _{DS}	@ V _{DS}	ECG No.	1-9	10-99	100-999	1000+
26403	MPF102★	TO-92	JFET (N Channel) RF, VHF, UHF, amp	25 @ 1	20 @ 15	4 @ .5	451	\$.39	\$.35	\$.29	\$.25
38341	2N3823	T0-72	JFET (N Channel) VHF, amp	30 @ 1	20 @ 15	8 @ .5	452	.89	.79	.69	.59
38527	2N5951	TO-92	JFET (N Channel) RF, VHF, UHF, amp	30 @ 1	13 @ 15	5 @ 100		1.09	.89	.79	.69
140142	J176	TO-92	JFET (P Channel)	30 @ 1	2 @ 25	4 @ -15		.59	.49	.45	.39
119423	2N7000★	TO-92	FET TMOS (N Channel)	_	1 @ 48	_		.49	.39	.29	.19
139344	IRFD220	4-pin DIP	FET TMOS (N Channel)	200 @ 25mA	800 @ 200	_				Cinseaut	.69
140169	2N7002	SOT-23	FET TMOS (N Channel)		0.5 @ 60	_	_	.35	.29	.25	.22
140450	J112	TO-92	JFET (N Channel)	35 @ 1	5@5	5 @ 5	468	.75	.59	.45	.39
140441	J211	TO-92	JFET (N Channel)	25 @ 1	20 @ 15	4.5 @ 15				Closeout	.39
140441	J211	10-92	JFET (N Channel)	25 @ 1	20 @ 15	4.5 @ 15				Closeout	

Boxes, Cabinets, Rubber Feet and Capacitors

IIII Bug Boxes

- · Anti-static plastic
- Fits in bug cage (11332)
- (11341) stores sixty 8-pin or thirty 16-pin DIPs



(11375) designed to store components

 Color: blue
 Weight: 0.11 lbs Box size: 4.9"L x 3.3"W x 0.6"H

Part No. Description Fixed: 30 individual comp...\$3.95 \$3.49 \$2.49

11375 Adjustable: 3 comp./6 vertical and 6 horizontal dividers.

2.95

IIIII Bug Trays

- Fits in bug cage (11332) (11826) Open:
- 1 compartment 4.6"L x 3.2"W x 0.4"H



. (11800) Horizontal: 10 compartments 3.2"L x 0.4"W x 0.4"H ea.

 Tray size: 4.8"L x 3.6"W x 0.5"H
 Weight: 0.08 lbs. Part No. Description 1-9 10-49 Open bug tray\$2.95 \$2.49 Horizontal bug tray2.95

∭III Bug Cage

- Hold bug boxes or trays
- Modular and interlocking
- Color: blue Weight: 0.7 lbs.

Cage size: 5.0"L x 3.9"W x 5.1"H

Bug boxes not included Part No. Description 1-9 10-24 11332 Bug cage\$6.95 \$6.25 \$5.49

JAMECO Stackable Drawers

- · Case size: 4.5"L x 4.4"W x 2.3"H Each drawer:
- 4.4"L x 4.0"W x 0.9"H Weight: 0.5 lbs.

Part No. Description 11906 White case/blue drawers..\$2.95 \$2.49

JAMECO Plastic Fliptop Box

Includes removable spacers that can be used to divide the box into 18 or less compartments.

- · Color/Materials: clear plastic box with a clear plastic lid
- Size: 8.4"L x 4.5"W x 1.4"H
- · Weight: 0.3 lbs

Part No.

142738

142746

142762

142771

119618

142658

142674

142682

126981

142666

142797

142800

142703

142711 119597

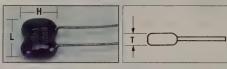
Part No. Description 100255



Fliptop box\$1.95 \$1.75 \$1.49

Dipped Silver Mica Capacitors (±5%)

Metalized Polyester Film Capacitors



Case type	DM15
Lead space (in.)	.23
Tolerance	± 5%
Operating temperature range	-55°C to +125°C
Size (mm) - L x T x H (may vary)	11 x 4 x 9

Part	Product	1			Pricing	9	OEM
Number	Number	Capacitance	Voltage	1	10	100	1000
15991	DM100	10p <i>f</i>	500V	\$.45	\$.35	\$.29	\$.25
16037	DM220	22pf	500V	.45	.35	.22	.19
16070	DM330	33p <i>f</i>	500V	.45	.35	.25	.19
16096	DM470	47pf	500V	.45	.35	.19	.15
16002	DM101	100pf	500V	.45	.35	.29	.25
16088	DM331	330pf	500V	.65	.55	.29	.22
16109	DM471	470pf	500V	.75	.65	.55	.45
16117	DM681	680p <i>f</i>	300V	.79	.69	.29	.25
16011	DM102	1000pf	100V	.85	.75	.65	.55

JAMECO 20 Drawer **Component Cabinet**





81701 (shown with drawer) · Includes 20 clear plastic

- drawers and dividers and 30 adhesive I.D. labels
- · Drawer can be divided into 4 sections (clear)
- · Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 15"W x 7.9"H Wt.: 4.7 lbs.
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Divider size: 2.4"L x 1.1"H

•	Divider	weight:	0.01	lbs.
D		D	17	

Part No.	Description	1-9	10-2
81701 85446	Complete component cabinet Divider for drawer		

3M Adhesive Rubber Feet

· Pressure sensitive adhesivebacked polyurethane for feet, stops, spacers, and protectors in many applications

Product No.

SJ5003BLK4

SJ5003BLKC

SJ5008BLK4

SJ5008BLKC

SJ5012BLK4

SJ5012BLKC

SJ5018BLK4

SJ5018BLKC

SJ5023BLK4

SJ5023BLKC

SJ5302CLR4

SJ5302CLRC

SJ5312CLR4

SJ5312CLRC

50051100





Blk hemisphere

Blk hemisphere

Blk cylindrical

Blk cylindrical

Blk tapered square

Clear hemisphere

Clear hemisphere

Clear cylindrical

Clear cylindrical

Blk flat round (ITW)





Fig

332244

55

2 2



Pack

100

100

100

100

100

100

100



126981

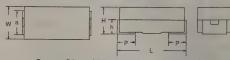
119618

Dimension	Pric	ing	
(W" x H")	1-9	10-99	1
.44 x .20	\$.99	\$.75	
.44 x .20	5.95	4.95	
.50 x .12	.99	.75	
.50 x .12	5.95	4.95	
.50 x .14	1.25	.99	
.50 x .14	5.95	4.95	
.50 x .23	1.29	.99	
.50 x .23	8.95	7.95	
.75 x .25	1.95	1.75	
.81 x .30	14.95	12.95	
.31 x .09	1.19	.89	
.31 x .09	6.95	5.95	
.50 x .14	1.19	.89	
50 x 14	6 95	5 95	

3.49

Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)

Any surface mount Tantalum Chip Capacitor may be special ordered - 2000 piece minimum.



Case Size (Dimensions in mm)

EIA	L	W	H	P	a	h(min)
CASE CODE	±0.2	±0.2	±0.2	±0.3	±0.2	
A (3216)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528)	3.5	2.8	1.9	0.8	2.0	0.7
C (6032)	6.0	3.2	2.5	1.3	2.0	1.0
D (7343)	7.3	4.3	2.9	1.3	2.4	1.0

10 pc. nimum \$.39	100	500	OEM 500	raels 2000
£ 20				
\$.05	\$.35	\$.25		\$.19
.75	.59	_	.45	-
	.75	.75 .59	.75 .59 —	.75 .59 — .45 Pricing OEM F

16V S	MT Tan	talum		Pricing per each			Pricing each
Part Number	Capacitance	Case Size	10 pc. minimum	100	500	OEM 500	reels 2000
86932	1µf	Α	\$.35	\$.25	\$.19		\$.15
86959	2.2µf	A	.35	.25	.19	_	.15
86991	4.7µf	В	.39	.29	.25	******	-
87038	10µf	C	.49	.35	_	.29	
87071	22µf	C	.59	.45	- 5-	.35	
87100	47µf	D	.75	.59	_	.39	

35V S	MT Tan	talum		eing each	OEM Pricing per each
Part Number	Capacitance	Case Size	10 pc. minimum	100	OEM reels 500
87046	10μ <i>f</i>	, D	\$.89	\$.69	\$.49

Multilayer Ceramic Chip Capacitors (Surface Mount)

Any surface mount Ceramic Chip Capacitor may be special ordered - 3000 piece minimum.



0805 SMT CASE

1206 SMT CASE

X7R SERIES (±10%)

0805	SMT Ca	se		Pricing per each	,		Pricing each
Part Number	Capacitance	Voltage	100 pc. minimum	500	1000	DEM 3000	reels 5000
87311 87370	.01µ <i>f</i> .1µ <i>f</i>	50 25	\$.15 .25	\$.11 .19	\$.06 .15	.11	\$.04

1206	SMT Ca	se		Pricing per each			Pricing each
Part Number	Capacitance	Voltage	190 pc. minimum	500	1000	OEM 3000	reels 5000
87249	1000pf	50	\$.10	\$.07	\$.04		\$.03
87329	.01µ <i>f</i>	50	.15	.11	.06		.04
87388	.1µf	50	.17	.14	.10	.07	_
87396	.22µf	25	.25	.19	.13	.11	_

Z5U SERIES (±20%)

Part Number Capacitance Voltage 100 pc. minimum 500 1000 3000 9 87177 .1μf 50 \$.15 \$.11 \$.06 — \$	0805
Dulata Data Data Data Data Data Data Data	87177
1206 SMT Case Pricing Der Pricing Der Pricing Per each	1206
Part Number Capacitance Voltage minimum 500 1000 3000 5	

1206	SMT Ca	se		Pricing per each			Pricing each
Part Number	Capacitance	Voitage	100 pc. minimum	500	1000	0EM 3000	reels 5000
87185	.1µf	50	\$.14	\$.11	\$.07	_	\$.045
87206	.22µf	50	.14	.11	.07	_	.045
87214	.33µf	50	.15	.12	.08	.06	
87222	.47µf	50	.25	.19	.15	_	.12



.50 x .06

Mylar Capacitors

Mannala gabaging

Mylar Capacitors (±10%)

Metallized Polyester Film Canacitors

High performance at low cost
 Non-inductive construction

Thigh Stability with frequency to	over an extended operating me
perating temperature range	-40°C to +85°C
	. 04 () 4111)

Operating temperature range	-40°C to +85°C
Dissipation factor	≤.01 (at 1kHz)
Dielectric strength	150% of rated voltage for 5 seconds

Mylar Capacitor Cross Reference

Panasonic: ECQ-E Series; Sprague: DF/450P/451P/453P: Westlake: 160/168/185/167/184/186; Mepco: 713A1/719A1/C280; TRW: X601PE/X601CPE; Packtron: MF/RB; Secor: MMKS/MMKR/MMDR; RIFA: PHE353/PHE354; Roederstein: MKT 1818/MKT 1822; WIMA: MKS; CSF Thompson: MD/MC; Siemens: B325X-XX; Rubycon: MC/MN; NIC: NEM/NRM; Nichicon: DDXM; Phillips: 712 A1 series

Part	Product			Case Size		Pricing		OEM I	ricing
Number	Number	Capacitance	Voltage	LxTxH (mm)	1	10	100	1000	5000
26833	MY.001 *	.001µf	100V	7x3x7	\$.11	\$.08	\$.06	\$.045	\$.03
26868	MY.0022*	$.0022 \mu f$	100V	6x3x10	.11	.08	.06	.045	.03
26876	MY.0047★	.0047µf	100V	6x3x9	.13	.09	.07	.055	.04
135600	MY.01/50	.01µf	50V	13x5x10	.10	.07	.05	.035	.03
26884	MY.01★	.01µf	100V	6x3x7	.13	.09	.07	.05	.04
26905	MY.022★	.022µf	100V	6x3x10	.15	.11	.08	.06	.05
26921	MY.033	.033µf	100V	8x4x11	.15	.11	.08	.06	.05
26930	MY.047*	.047µf	100V	8x4x12	.17	.13	.09	.07	.06
135554	MY.068/200	.068µf	200V	18x6x10	.19	.15	.12	.07	.05
135562	MY.1/50	.1µf*	50V	14x6x12	.15	.11	.08	.05	.04
26956	MY.1★	$.1\mu f$	100V	12.5x5x9.5	.19	.15	.12	.10	.08
93921	MY.1/250*	.1µf	250V	12.5x5.5x10	.29	.22	.17	.14	.11
93948	MY.1/630	.1µf	630V	26x7x13	.49	.39	.25	.22	.20
135546	MY.22/50	.22µf*	50V	17x9x16	.19	.15	.12	.07	.05
26972	MY.22★	.22µf	100V	12.5x5.5x10	.25	.19	.15	.12	.08
93964	MY.33/250*	.33µf	250V	18x7x12.5	.35	.25	.22	.19	.16
26999	MY.47★	.47µf	100V	18x6x11.5	.35	.25	.22	.19	.16
27001	MY1★	1µf	100V	18x7.5x14	.55	.45	.35	.22	.19
93999	MY2.2/250*	2.2µf	250V	26x9x16	.95	.79	.59	.49	.45

Dipped Tantalum Capacitors (±10%) Resin Dipped Solid Tantalum Capacitors

· Flame retardant coating · Exceptional temperature stability Low leakage current impedance · Moisture-resistant

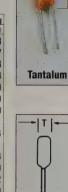
 Designed for entertainment and commercial equipment -55°C to +85°C (+125°C with derating) Operating temperature range Rated voltage DC

<+ 85°C

Dipped Tantalum Capacitor Cross Reference

Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Kemet: T350/ T360; Mepco: 49GS; NEC: DN; Nichicon: 599

Number	Product Number			Cinc ()					
	Number			Size (mm)		Pricing		OEM P	ricing
33486		Capacitance	Voltage	DxH	1	10	100	1000	5000
00,00	TM.1★	.1µ <i>f</i>	35V	4.5x7	\$.19	\$.15	\$.12	\$.10	\$.08
33507	TM.22★	.22µf	35V	4.5x7	.19	.15	.12	.08	.07
33523	TM.33	.33µ <i>f</i>	35V	4.5x7	.19	.15	.12	.10	.08
33531	TM.47★	.47µf	35V	4.5x7	.19	.15	.12	.10	.08
33662	TM1★	1μ <i>f</i>	35V	4.5x7	.25	.19	.15	.12	.10
94001	TM2.2/16	2.2µf	16V	4.5x7	.25	.19	.15	.10	.09
94019	TM2.2/25	2.2µf	25V	4.5x7	.25	.19	.15	.12	.10
33734	TM2.2★	2.2µf	35V	4.5x7.5	.29	.22	.17	.14	.11
33769	TM3.3★	3.3µf	35V	4.5x7.5	.35	.25	.22	.16	.14
94035	TM4.7/16	4.7µf	16V	4.5x7.5	.29	.22	.17	.14	.11
94043	TM4.7/25	4.7µf	25V	5x8.5	.35	.25	.22	.16	.14
33806	TM4.7★	4.7µf	35V	5.5x9	.39	.29	.25	.22	.19
33873	TM6.8★	6.8µf	35V	6x10	.59	.49	.32	.27	.22
94060	TM10/16★	10µf	16V	5x9	.49	.39	.32	.22	.19
94078	TM10/25	10µf	25V	5.5x9	.55	.45	.35	.29	.25
33689	TM10★	10µf	35V	6x10	.65	.55	.45	.32	.27
33718	TM15★	15µf	25V	6x10	.65	.55	.45	.32	.27
33751	TM22	22µf	6.3V	5x9	.39	.29	.25	.22	.19
94094	TM22/16★	22µf	16V	6x10	.55	.45	.35	.25	.22
94107	TM22/25	22µf	25V	7x10.5	1.25	.95	.65	.55	.49
33785	TM33★	33µf	25V	8x13	1.25	.95	.75	.55	.49
94123	TM47/16	47µf	16V	8x13	1.25	.95	.75	.65	.59
33822	TM47★	47µf	25V	9x14.5	1.95	1.69	1.49	1.15	.99
33700	TM100★	100µf	6.3V	7x10.5	1.49	1.25	.99	.75	.65



Ceramic Disc Capacitors

Ceramic Disc Capacitors (±5%)

50 Volt and 1000 Volt, NPO Temperature Stable

· Provides an accurate, predictable linear capacitance change with variations in operating temperature Operating temperature range -30°C to +85°C (+125°C with derating)

Capacitance change over temperature range -6% to +9%

Dielec	tric withstar	age 2.5 times rated voltage for not < 1 second							
Part	Product			Dia.		Pricing		OEM P	ricing
Number	Number	Capacitance	Voltage	(mm)	1	10	100	1000	5000
97236	DC22/1K5	22pf	1000V	5	\$.19	\$.15	\$.12	\$.10	\$.08
97244	DC33/1K5	33p <i>f</i>	1000V	6	.19	.15	.10	.08	.06
97261	DC100/1K5	100p <i>f</i>	50V	7	.15	.11	.08	.06	.05

Ceramic Disc Capacitors (±20%)

50 Volt, 500 Volt and 1000 Volt, Z5U Temperature Coefficient

 Wide selection of temperature characteristics · High insulation resistance Operating temperature range +10°C to +85°C Capacitance change over temperature range +22% to -56% Dielectric withstanding voltage | 2.5 times rated voltage for not < 1 second

	Part	Product			Dia.	Pricing		OEM Pricing		
	Number	Number	Capacitance	Voltage	(mm)	1	10	100	1000	5000
ı	135141	DC2.2/50	2.2pf	50V	5	\$.05	\$.04	\$.03	\$.025	\$.02
	15333	DC10	10p <i>f</i>	50V	5	.06	.05	.04	.03	.025
	15405	DC22	22pf	50V	6	.06	.05	.04	.03	.025
	15510	DC47	47pf	50V	5	.06	.05	.04	.03	.02
	15341	DC100★	100pf	50V	5	.06	.05	.04	.03	.025
•	15413	DC220	220pf	50V	5	.06	.05	.04	.025	.02
	15528	DC470	470pf	50V	5	.06	.05	.04	.03	.025
	15190	DC.001★	.001µf	50V	6	.05	.04	.03	.025	.02
	97341	DC.0022/1K20	$.0022 \mu f$	1000V	6	.17	.13	.09	.06	.05
	135167	DC.0027	.0027µf	500V	7	.06	.05	.04	.025	.02
	15211	DC.0047	.0047µf	50V	6	.06	.05	.04	.02	.018
	15229	DC.01★	.01µf	50V	6	.05	.04	.03	.025	.02
	97375	DC.01/1K20	.01µf	1000V	12	.19	.15	.12	.10	.08
	15245	DC.022	.022µf	50V	8	.06	.05	.04	.03	.025
	15253	DC.047*	.047µf	50V	8	.06	.05	.04	.03	.025
	15270	DC.1★	.1µf	50V	8	.13	.09	.07	.055	.045



Mylar





Operating temperature range



Electrolytic Capacitors

Large Can Aluminum Electrolytic Snap Capacitors (±20%)

Snap-Ins!

CROSS REFERENCES

NRLM Series . Can-Top safety vent · Designed as input filter of switched mode power

Supply standard 10mm (.400") Snap-In spacing
Operating temperature range: -40°C to +85°C max.
leakage current: 0.02CV (uA) or 3mA whichever is smaller CROSS REFERENCES: Aero M: LP/LPR; Elna:LP3/LP4;

Illinois Capacitor: LBA/LPR; Mallory: LDX; Marcon: CEAWF Nichicon:LLK/LLQ; Panasonic:TS-UP/TS-U; Phillips (MEPCO):3487/3489;

Rubycon:RSP; Sprague:80D/82D; United Chemicon:SMG(VN)/SMH(VN)

-40°C to +85°C

Part	Product			Size (mm)	Pric	ing	OEM
Number	Number	Capacitance	Voltage	DxL	1	10	100
115351	SN220/200	220µf	200V	30 x 31	\$1.75	\$1.49	\$1.09
115377	SN470/200	470µf	200V	25 x 51	2.49	1.95	1.39
115406	SN2200/50	2,200µf	50V	30 x 27		Closesut	.99
115422	SN4700/50	4,700µf	50V	30 x 51	2.49	1.95	1.39
115431	SN6800/50	6,800µf	50V	30 x 51	2.95	2.49	1.69
115449	SN10000/50	10,000μ <i>f</i>	50V	35 x 50	4.49	3.95	3.15

5mm Miniature Aluminum Radial Electrolytic Capacitors General purpose low profile 85°C (±20%)

IVIAX. Lea	wax. Leakage current (20 c) 0.016 v of 3µA									
Part	Product			Size (mm)		Pricing		OEM		
Number	Number	Capacitance	Voltage	DxH	1	10	100	1000		
94160	5R1/50	1µ <i>f</i>	50V	4x5	\$.15	\$.11	\$.08	\$.06		
94211	5R10/16	10µ <i>f</i>	16V	4x5	.19	.15	.12	.08		
94220	5R10/35	10µf	35V	5x5	.35	.25	.15	.13		
94289	5R100/16	100μ <i>f</i>	16V	6x5	.39	.29	.22	.15		

7mm Miniature Aluminum Radial Electrolytic Capacitors

General purpose low profile 85°C (±20%)
CAPACITOR CROSS REFERENCES Eina: RC2; IC: RSS; Marcon: SSM;
Nichicon: USA/SR/SA; Rubycon: MS7; UCC: SRA/SRG; Panasonic: KA

Part	Product			Size (mm)		Pricing		OEM
Number	Number	Capacitance	Voltage	DxH	1	10	100	1000
94369	7R10/35	10µf	35V	6x7	\$.15	\$.11	\$.08	\$.06
94431	7R100/16	100µf	16V	6x7	.19	.15	.12	.09
13512	7R220/10	220µf	10V	8x7	.19	.15	.12	.09

115449

Axial Electrolytic Capacitors

Miniature Aluminum Axial Electrolytic Capacitors

General purpose low voltage 85°C standard size (±20%)



Operating temperature range	-40°C to +85°C
Leakage Current	0.02CV or 2µA,
(After 2 minutes 20°C)	whichever is greater

AXIAL CAPACITOR CROSS REFERENCES

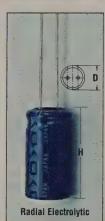
Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS;

Sprague: 501D/513D; UCC: SME; Panasonic: SU

* Capacitor dimensions may vary

10866 A1 11076 A4 93577 A1 10882 A1 10997 A2 135319 A4	1/50★ 1.7/50★ 10/35 10/50★ 12/50★ 17/25 17/50★	1μf 4.7μf 10μf 10μf 22μf 47μf	50V	5x13 7x19 6x14 7x17 6x18	\$.23 .23 .23 .23	\$.18 .18 .18	\$.13 .13 .13	\$.11 .09 .09
11076 A4 93577 A1 10882 A1 10997 A2 135319 A4	1.7/50★ 10/35 10/50★ 12/50★ 17/25 17/50★	4.7μf 10μf 10μf 22μf 47μf	50V 35V 50V 50V	7x19 6x14 7x17	.23 .23 .23	.18	.13	.09
93577 A1 10882 A1 10997 A2 135319 A4	0/35 0/50★ 22/50★ 17/25 17/50★	10μ <i>f</i> 10μ <i>f</i> 22μ <i>f</i> 47μ <i>f</i>	35V 50V 50V	6x14 7x17	.23	.18	.13	.09
10882 A1 10997 A2 135319 A4	0/50★ 22/50★ 17/25 17/50★	10µf 22µf 47µf	50V 50V	7x17	.23			
10997 A2 135319 A4	22/50★ 17/25 17/50★	22µ <i>f</i> 47µ <i>f</i>	50V			.18	.13	09
135319 A4	17/25 17/50★	47µ <i>f</i>		6x18	- 1			.03
	17/50★		25V		.23	.18	.13	.09
11105 A4		47 (#U V	8x18	.23	.18	.09	.07
		47µf	50V	8x17	.27	.21	.17	.13
93551 A1	00/35	100µf	35V	10x22	.23	.18	.13	.09
10911 A1	00/50*	100µf	50V	10x21	.29	.24	.19	.15
11017 A2	220/50*	220µf	50V	13x27	.29	.24	.19	.15
54287 A4	70/16	470µf	16V	10x22	.29	.24	.19	.15
93622 A4	70/35	470µf	35V	13x31	.35	.29	.25	.17
11121 A4	70/50*	470µf	50V	17x32	.49	.39	.29	.22
93631 A1	000/16	1000µf	16V	13x27	.39	.29	.22	.19
10954 A1	000/25*	1000µf	25V	13x33	.65	.49	.39	.35
93649 A1	000/35	1000µf	35V	13x32	.75	.59	.49	.45
11033 A2	200/16	2200µf	16V	18x40	.69	.55	.45	.39
93657 A2	200/35	2200µf	35V	16x32	1.25	.99	.85	.75
93665 A3	300/25	3300µf	25V	16x32	1.25	.99	.85	.75
93673 A4	700/25	4700µf	25V	22x42	1.75	1.49	1.25	.99
93681 A16	0000/16	10,000µf	16V	22x51	2.25	1.95	1.75	1.49





Radial Electrolytic Capacitors

Miniature Aluminum Radial Electrolytic Capacitors

General purpose low voltage 85°C standard size (±20%)

Operating temperature ran	ige	-40°C to +85°C
Leakage Current	After 1 min.	0.03CV or 4µA, whichever is greater
(20°C)	After 2 min.	0.01CV or 3µA, whichever is greater

RADIAL CAPACITOR CROSS REFERENCES

Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

	" Capacitor dimensions may vary									
	Part	Product			Size (mm)*		Pricing		OE	M
ı	Number	Number	Capacitance	Voltage	DxH	1	10	100	1000	5000
ı	29831	R1/50★	1µf	50V	5x11	\$.08	\$.06	\$.04	\$.035	\$.03
ı	93729	R2.2/50	2.2µf	50V	5x12	.08	.06	.04	.035	.03
ı	135183	R3.3/25	3.3µf	25V	4x9	.08	.06	.04	.035	.03
ı	31000	R4.7/50*	4.7µf	50V	7x13	.08	.06	.04	.035	.03
ı	29891	R10/50★	10µf	50V	7x12	.08	.06	.04	.035	.03
ı	93737	R22/50★	22µf	50V	7x12	.09	.07	.05	.04	.03
ı	93745	R33/50	33µ <i>f</i>	50V	8x12	.13	.10	.06	.05	.04
ı	135301		47µ <i>f</i>	10V	6x12	.08	.06	.03	.025	.02
ł	93753	R47/25	47µf	25V	8x12	.10	.07	.05	.04	.035
ı	31114	R47/50*	47µf	50V	8x12	.13	.10	.07	.05	.04
ı	93761	R100/25*	100µf	25V	10x16	.15	.11	.08	.06	.05
ı	29962	R100/50*	100µf	50V	10x17	.19	.15	.12	.09	.08
ı	30496	R220/25*	220µf	25V	10x16	.17	.13	.10	.08	.07
ı	93770	R220/35	220µf	35V	13x25	.23	.18	.13	.11	.09
ľ	93778	R220/50	220µf	50V	13x21	.29	.24	.19	.15	.13
ı	93796	R330/25	330µf	25V	10x14	.23	.18	.13	.11	.09
ı	93809	R470/16	470µf	16V	10x20	.23	.18	.13	.11	.09
ı	31181	R470/25*	470µf	25V	13x20	.27	.21	.17	.13	.11
ı	93817	R470/35	470µf	35V	13x21	.27	.21	.17	.13	.11
	93825	R470/50	470µf	50V	16x27	.35	.29	.25	.22	.20
1	30015	R1000/16*	1000µf	16V	16x29	.29	.24	.19	.15	.13
ı	93833	R1000/25	1000µf	25V	16x27	.65	.49	.39	.29	.25
-	93841	R1000/50	1000µf	50V	16x31	.79	.65	.55	.45	.39
- 1	133145	R2200/16	2200µf	16V	16x26	.65	.49	.39	.29	.25
-1	30533	R2200/25*	2200µf	25V	16x32	.79	.65	.55	.45	.39
-1	30891	R3300/25	3300µf	25V	16x31	1.05	.89	.75	.59	.49
	93850	R4700/25	4700µf	25V	22x42	1.15	.99	.85	.69	.59
Į	31510	R6800/16	6800µf	16V	18x36	1.49	1.25	1.09	.89	.79
•										

Monolithic Capacitors

Monolithic Ceramic Capacitors (±20%)

Ceramic Epoxy Dipped (Z5U Series)

Applications:

- · Data processing · Communications engineering · Photo industry
- Measuring and control equipment
 Automotive electronic systems
 - · Entertainment industry · Medical engineering

Operating temperature range: Z5U --- -10°C to +85°C

* Capacitor dimensions may vary

Superior difficultions may vary											
Part	Product		Voltage	Size (mm)* WxTxH	Pricing			OE	OEM Pricing		
Number	Number	Capacitance			1	10	100	1000	5000	10,000	
81541	MD10★	10pf	50V	3.5x2x3	\$.10	\$.07	\$.05	\$.04	\$.035	\$.03	
81533	MD22★	22pf	50V	4x2x4	.13	.10	.07	.05	.045	.04	
138165	MD33	33p <i>f</i>	50V	3.5x2x3.5	.13	.10	.07	.05	.045	.04	
138173	MD47	47p <i>f</i>	50V	4x2x5	.13	.10	.07	.05	.045	.04	
81525	MD100★	100pf	50V	3.5x2x3	.13	.10	.07	.05	.045	.04	
138181	MD.0022	.0022µf	50V	4x2x5.5	.13	.10	.07	.05	.045	.04	
138190	MD.0033	.0033µf	50V	5x2x4	.13	.10	.07	.05	.045	.04	
138202	MD.0047	.0047µf	50V	5x2x5.5	.13	.10	.07	.05	.045	.04	
81517	MD.001★	.001µf	50V	4.5x2x3	.13	.10	.07	.05	.045	.04	
138211	MD.022	.022µ <i>f</i>	50V	4.5x2x5.5	.13	.10	.07	.05	.045	.04	
138229	MD.033	.033µ <i>f</i>	50V	5x3x5	.13	.10	.07	.05	.045	.04	
25507	MD.01★	.01µf	50V	3.5x2x3	.13	.10	.07	.05	.045	.04	
57621	MD.047★	.047µf	50V	2.5x2.5x3	.15	.11	.08	.05	.045	.04	
25523	MD.1★	.1µf	50V	6x2x4	.19	.15	.12	.09	.08	.07	
25540	MD.22★	.22µf	50V	6x2x4.5	.23	.18	.13	.11	.09	.08	
138237	MD.33	.33µ <i>f</i>	50V	6x2x8	.23	.18	.13	.11	.09	.08	
25558	MD.47★	.47µf	50V	4.5x2.5x4.5	.23	.18	.13	.11	.09	.08	
81509	MD1★	1μ <i>f</i>	50V	6x3x7	.59	.45	.35	.29	.25	.22	







6mm Ceramic Trimmer



Ceramic Trimmer Capacitors

5mm Ceramic Trimmer Capacitors

- . Working volt.: 200VDC . Withstand volt.: 400VDC
- Turning torque: 35~200 g/cm Operating temp, range: -30°C~+85°C
- Insulation resistance: >10MΩ min. @ 250VDC

Part	Capacitance	Q Factor	Color		OEM			
Number	Range (pf)	@ 1MHz	Codes	1 10		100	1000	
136944	3.0-10.0	> 300	Nil	\$.59	\$.49	\$.39	\$.29	
136952	4.8-20.0	> 300	Blue	.59	.49	.39	.29	
136961	5.5-30.0	> 200	Yellow	.59	.49	.39	.29	
136979	9.0-50.0	> 200	Green	.59	.49	.39	.29	
136987	16.0-90.0	> 200	Purple	Closeout	.49	_		

6mm Ceramic Trimmer Capacitors

- Working voltage: 50VDC
 Withstand voltage: 110VDC
- Turning torque: 20-200 g/cm Temperature range: -30°C to +85°C
- Insulation resistance: >10MΩ min. @ 250VDC

Part	Capacitance	Q Factor	Color		Pricing	OEM	
Number	Range (pf)	@ 1MHz	Codes	1	10	100	1000
139432	3.0-10.0	> 300	White	\$.59	\$.49	\$.39	\$.29
139459	4.2-20.0	> 300	Red	.59	.49	.39	.29
139467	6.2-30.0	> 200	Green	.59	.49	.39	.29
139475	9.8-50.0	> 200	Brown	.59	.49	.39	.29

8mm .315" Ceramic Trimmer Capacitors (250WVDC) Through Hole

- Working volt.: 250VDC Withstand volt.: 550VDC
- Turning torque: 40~200 g/cm Operating temp. range: -55°C~+85°C
- Insulation resistance: 10MΩ min. @ 250VDC

Part	Capacitance	Q Factor	Color		0EM		
Number	Range (pf)	@ 1MHz	Codes	1	10	100	1000
32820	3.0-23.0	> 300	Blue	\$1.15	\$.95	\$.75	\$.55
134818	3.5-13.0	> 300	lvory	.49	.39	.25	.19
32838*	4.0-34.0	> 300	Yellow	1.25	.99	.85	.65
32854*	6.0-70.0	> 200	Nil	1.25	.99	.85	.75
94449*	8.5-100	> 200	Purple	1.15	.95	.75	.65
94465*	8.5-120	> 200	Nil	1.15	.95	.75	.65



\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less

Documentation available at tip Jameco.com

Also available at your local JIM-PAK retailer - see page 128

4th Band

Gold

**Any	is a 🗀	item. Pricing:	\$.99/c \$4.95/k	161 Standard	Resistor Value	s Chart			
Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms	Part No. Ohms
† 2.2	29882 10 ✓*	31106 47 ✓ *	30470 220 √#	29663 1.0K √#	31026 4.7K ✓#	30453 22K ✓ *	29997 100K 🗸 #	31202 470K √*	† 2.2M
† 2.4	† 11	† 51	† 240	† 1.1K	31237 5.1K ✓*	† 24K	† 110K	† 510K	† 2.4M
† 2.7	† 12	† 56	30605 270 ✓*	† 1.2K*	31270 5.6K ✓ *	† 27K	† 120K	† 560K	† 2.7M
† 3.0	† 13	† 62	† 300	† 1.3K	† 6.2K	† 30K	† 130K	† 620K	† 3.0M
† 3.3	† 15	† 68	30867 330 ✓ *	29760 1.5K ✓ *		30841 33K ✓*	† 150K	† 680K	† 3.3M
† 3.6	† 16	† 75	† 360	† 1.6K	† 7.5K	† 36K	† 160K	† 750K	† 3.6M
† 3.9	† 18	† 82	† 390 *	† 1.8K	† 8.2K	† 39K	† 180K	† 820K	† 3.9M
† 4.3	† 20	† 91	† 430	30277 2.0K ✓ *	† 9.1K	† 43K	† 200K	† 910K	† 4.3M
† 4.7	† 22	29946 100 🗸 #	31165 470 ✓*	30314 2.2K ✓ *	29911 10K ✓#	31149 47K ✓ *	30525 220K	29698 1.0M ✓*	† 4.7M
† 5.1	† 24	† 110	† 510	† 2.4K	† 11K	† 51K	† 240K	† 1.1M	† 5.1M
† 5.6	† 27	30082** 120	† 560	30390 2.7K ✓ *	† 12K	† 56K	† 270K	† 1.2M	† 5.6M
† 6.2	† 30	† 130	† 620	† 3.0K	† 13K	† 62K	† 300K	† 1.3M	† 6.2M
† 6.8	† 33	30162 150 ✓*	31499 680 ✓ *	30672 3.3K ✓*	30146 15K ✓*	† 68K	† 330K	† 1.5M	† 6.8M
† 7.5	† 36	† 160	† 750	† 3.6K	† 16K	† 75K	† 360K	† 1.6M	† 7.5M
† 8.2	† 39	† 180	† 820	† 3.9K	† 18K	† 82K	† 390K	† 1.8M	† 8.2M
† 9.1	† 43	† 200	† 910	† 4.3K	† 20K	† 91K	† 430K	† 2.0M	† 9.1M
	K=	:1000 ohms M=1,000),000 ohms – For (√), (*), (#) information, see sy	mbol column in 1/4 watt i	Resistor Assortments bei	JW.		29938 10M 🗸 *
Amer	unline with new mum	handa a stanti ti	4						

Any value with part number is a stock item. + Any standard resistor value above (without part number) may be special ordered - 1,000 pc. minimum - \$9.95/K (bulk) Register Color Code 1st & 2nd Band



	116	SOIO	UI	UUI	U	CUL
				1st a	#	
				2nd	#	
			-	# of	zei	os
		7	-	Tole	erar	ice
A.11						

Values may not be combined for quantity price breaks Sold in minimum increments of 100 each

2 - Red 3 - Orange 4 - Yellow 5 - Green 6 - Blue 7 - Violet	Red Orange Yellow Green Blue	100 1,000 10,000 100,000 1,000,000	Silver - ±10%
8 - Gray	Silver	0.01	No Band -
9 - White	Gold	0.1	±20%

Brown

1/4	watt	Carbon	Film	Resistor	(±5%)	Assortments
nn .						

Part No.	Product No.	Symbol	Description 1-4	5-9	10-24
10719	ASST8★	N/A	5 each 70 values (every other value from R10 ohm-R5.6 Meg) 1/4 watt carbon film (350 pcs.)\$9.95	\$8.95	\$7.49
103165	ASST30★	*/#	10 each (24 (*) values) 50 each (6 (#) values) 1/4 watt carbon film resistors (540 pcs.)	12.49	10.95
10663	ASST27	1	100 each (27 (✓) values) 1/4 watt carbon film resistors (2,700 pcs.) 19.95	17.95	16.49
10655	ASST161	N/A	100 each 161 values (resistor values chart above) 1/4 watt carbon film resistors (16,100 pcs.)119.95	107.95	96.95
81832	CAB14R★	N/A	1/4 watt resistor component cabinet kit – 30 values (540 pcs.) see page 21		23.95

1/8 Watt Carbon Film Resistors (±5%)

	1/8 & 1/2 Watt Resistor Assortments Value Chart (Ohms)								
10 √*	150 ✓*	330 ✓*		2.0K √*			15K √*	33K √*	470K √*
47 √*	220 🗸 #	390 *	1.0K √#	2.2K ✓*	4.7K √#		22K ✓*		1.0M ✓*
100 /#	270 ✓*	470 √*	1.5K ✓*	2.7K √*	5.1K ✓*	10K √#	27K *	100K √#	10M √*

 /), (*), (#) symbols indicate Resistor values included in Assortments below. Any standard resistor value (above) may be special ordered – 1,000 pc. minimum – \$12.95/K (bulk) – call for larger quantity pricing

	1/8 Watt Carbon Film Resistor (±5%) Assortments							
Part No.	Product No.	Description	1-4	5-9				
108281	ASST1870★	5 each 70 values (every other value from R10 ohm-R5.6M) (see chart – top of page) 1/8 watt carbon film (350 pcs.)	SALE	\$7.95				
108302	ASST1830★	10 each (24 (*) values) 50 each (6 (#) values) 1/8 watt	SALE	11.95				
108290	ASST1827	100 each (27 (✓) values – see chart above) 1/8 watt carbon film resistors (2,700 pcs.)	.32.95	29.95				
108311	ASST18161	100 each 161 values (resistor values chart – top of page) 1/8 watt carbon film resistors (16,100 pcs.)	149.95	134.95				
108329	CAB182R	1/8 watt resistor component cabinet kit – 30 values (540 pcs.) see page 21	.29.95	26.95				

1/2 Watt Carbon Film Resistors (±5%)

	1/2 Watt Carbon Film Resistor (±5%) Assortments							
Part No.	Product No.	Description	1-4	5-9				
107836	ASST1270★	5 each 70 values (every other value from R10 ohm-R5.6M) (see chart – top of page) 1/2 watt carbon film (350 pcs.)	SALE	\$11.49				
107852		10 each (24 (*) values) 50 each (6 (#) values) 1/2 watt	SALE	15.95				
107844	ASST1227	100 each (27 (✓) values – see chart above) 1/2 watt carbon film resistors (2,700 pcs.)	.34.95	31.49				
107861	ASST12161	100 each 161 values (resistor values chart – top of page) 1/2 watt carbon film resistors (16,100 pcs.)	SALE	154.95				
107879	CAB12R	1/2 watt resistor component cabinet kit – 30 values (540 pcs.) see page 21	.32.95	29.95				

Resistor Networks

0 - Black

1 - Brown

Single-In-Line "SIP" Resistor Networks 8, 10-Pin Bussed (25mW/Resistor) ±2%

Features (8BRN/10BRN):

• Rated power per resistor Bussed/Common at 70°C: 125mW/ resistor

• Operating temp. range: -55°C to +125°C · Resistance temperature coefficient:

200 ppm/°C · Max. working voltage: 100V or rated power x

resistance, whichever is smaller • Insulation resistance: $10.000M\Omega$ min. at 100V

Solderability: per MIL-R-83401

• 8-pin package (7 resistors) = 8BRN 10-pin package (9 resistors) = **10BRN** Low profile 5mm (.200" body height)

· Low profile is compatible w/ DIPs

• Cermet thick film construction

800	AND DESCRIPTION OF	MANAGEMENT .	Fait NU.	LIII2	OHHIS	
1	1111		97826	8	10K	
2.5	Wright we	Sales and Sales	97851	10	330	
1	Company of the last	producting.	97869	10	470	
(6)	isuo	-91	97877	10	1.0K	
	and the same of the		97893	10	2.2K	
x	1111		24660	10	4.7K	
	OEM F	ricing	24643	10	10K	
100	1000	5000	98087	10	47K	
\$.16	\$.13	\$.11	98095	10	100K	

SIP and DIP Resistor Network Cross Reference Chart

\$.25 \$.19

Pricing

Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN	770-81-R	708A	4608X-101	CSC08A01	L08-1-R	356CF X2PD	9S08 GL002
10BRN	770-101-R	710A	4610X-101	CSC10A01	L10-1-R	256CX X2PD	9S10 GL002
16IRN	761-3-R	316B	4116R-001	MDP16-03	898-3-R	916C X5SR	D16H 12-J

Dual-In-Line "DIP" Resistor Networks 16-Pin Isolated (140mW) ±2% Features (16IRN):

• Maximum operating voltage: 100V • Tolerance ±2%

Temperature coefficient: ±100ppm/°C

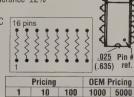
• Operating temperature: -55°C to +125°C

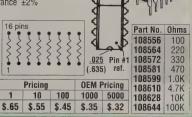
• Insulation resistance: $10.000M\Omega$ min. · Lead solderability / Solvent resistance:

meets requirements of MIL-R-83401 · Power rating at 70°C: 2.25 watts

 Compatible with automatic insertion equipment

· Copper leads for excellent







Knobs, Heat Shrink Tubing and Memory Capacitors

Instrumentation Knobs (1/8" and 1/4" Shaft Diameters)

102787/104176: • Brass insert and set screw for strength and durability

 Compatible with all Jameco rotary switches (pg 38)
 Fits 0.25" shafts 136240: • Used with 1/2 watt and 2 watt linear taper

potentiometers (opposite page) • Fits all 0.25" shafts

123123: • Brass insert, dual set screws • Fits 0.12" shafts

138413: • Brass insert and set screw for strength and security Black knob is complimented by chrome trim

138392: • Brass insert, dual set screws • Fits 0.25" shafts

• Fits 0.125" shafts



123123

102787





104176







	weight.	.02 105.		ı
	1-9	10-99	100-999	I
5"H	\$.79	\$.65	\$.39	I
3"H	.79	.65	.39	1
4"H	.65	.45	.39	ı
Q"H	70	65	40	ı

Part No. Product No. Description Dia. (in.) Size 123123 KN183 Black w/ flange (.090") .125 .52"Dia. x .6 138413 PKDT60B Black round chrome .125 78"Dia. x .5 102787 KN141★ Black pointed .250 1.25"L x .54 104176 KN143★ Black round control .250 .75"Dia. x .49 136240 .54"Dia. x .52"H KN145 Black round chrome .250 1.09 .65 138392 PKG90B Black round chrome 85"Dia. x .56"H .79

Shaft

Aluminum Instrumentation Knobs (1/8" and 1/4" Shaft Diameters)

138384: • Narrow aluminum knob has coarse surface for sensitive control

Dual set screws assure a tight attachment
 Bright red indicator

138481/138499/138501/138510: • Quality design gives an attractive look

Includes set screw for secure attachment
 Black position pointer







138510

Weight: .01 lbs.

142375: • White position pointer

· Black knob with inset chrome top

Part No.	Product No.	Description	Shaft Dia. (in.)	Size	1-9	10-99	100-999
138384	KD500G	Aluminum knob	.125	.50"Dia. x .63"H	\$1.25	\$.99	\$.79
138481	KN031	Aluminum knob	.250	.61"Dia. x .65"H	1.49	1.29	1.15
142375	KN034	Aluminum knob (black)	.250	.61"Dia. x .65"H	1.59	1.39	1.25
138499	KN030	Aluminum knob	.250	.79"Dia. x .77"H	1.59	1.39	1.25
138501	KN032	Aluminum knob	.250	.87"Dia. x .75"H	1.95	1.69	1.49
138510	KN033	Aluminum knob	.250	1.18"Dia. x .87"H	2.49	2.25	1.95

Color Coded Instrumentation Knobs for Knurled Shafts (6mm)

These black, durable plastic knobs are easily identified by their bright colored ends.

• Fits 6mm (0.238"), 18 tooth knurled shaft • White position indicator stripe

• Size for all knobs: .68"Dia. x .87"H (Diameter measurement is for knob base) • Weight: .01 lbs.



Number	Number	Color	Dia. (in.)	1-9	10-99	100+
138536	KN3013	Blue	.238	\$.49	\$.39	\$.35
138544	KN3014	Green	.238	.49	.39	.35
138528	KN3012	Yellow	.238	.49	.39	.35
138552	KN3015	Red	_238	.49	,39	.35

PVC and Polyolefin **Heat Shrink Tubing**

• 2:1 uniform shrink ratio

 Color: black · Will not cold

flow or melt Temperature range: -45°C to +125°C



Shrink temperature: 175°C

See heat gun page 75 • Weight: .01 lbs.

Length 39" (1 meter), sold as 1 increment

	PVC											
Part No.	Before	After (Dia.)	1-9	10-99	100-499							
134885	1/8"	1/16"	\$.39	\$.29	\$.19							
70631	1/4"	1/8"	.49	.39	.32							
70623	1/2"	1/4"	.69	.55	.45							
70666	3/4"	3/8"	.75	.59	.49							

Polyolefin

Dielectric strength: 1300V
 Shrink temperature: 121°C

110/11011	1 100	no rotaraun			
Part No.	Before	After (Dia.)	1-9	10-99	100-499
71327	1/16"	1/32"	\$.89	\$.69	\$.55
71870	3/32"	3/64"	1.15	.89	.69
71280	1/8"	1/16"	1.25	.99	.75
72063	1/4"	1/8"	1.49	1.25	.99

Memory Back-Up Capacitors

Excellent voltage holding characteristics for low back-up currents

Small size vs. capacitance Capacitance ranges from .047 to

1 farad • Voltage: 5.5VDC

Applications:

Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)

Memory back-up of remote controllers

		Cap.		Pricing	
Part No.	Product No.	(Farad)	1-9	10-99	100
142922	MBC.047/5.5	.047	\$1.75	\$1.49	\$1.25
142931	MBC.10/5.5	.10	2.19	1.89	1.59
142949	MBC .22/5.5	.22	2.29	1.95	1.69
143001	MBC .33/5.5	.33	3.95	3.49	2.75
143010	MBC .47/5.5	.47	3.95	3.49	2.75
142957	MBC 1.0/5.5	1.0	4.95	4.49	3.49

NTC Thermistors

Material of coating: EPOXY		D	imensions	(Units: n	nm)		T	↑ d
Material of leads: tinned copper wires	D	D (max.)	L (min.)	d	р	T (max.)	*	D () T
Color of coating: green • Weight: .001 lbs.	5	6.5	31	0.5	3.5	5	D	
			B Consta		(Operating	Permissible	Pricing

77

					B Constant	Operating	Permissible		Pricing		OEM
4	Part No.	Product No.	R25 (Ω)	R25/R50	(Nominal)	Current (max.)	Current (max.)	1-9	10-99	100-999	1000
	142033	TTC101	100 +10%	2.293	3200K	15mA	170mA	\$.59	\$.49	\$.39	\$.29
	142041	TTC201	200 +10%	2.479	3500K	15mA	130mA	.59	.49	.39	.29
	142050	TTC202	2K +10%	2.822	4000K	5mA	50mA	.59	.49	.39	.29
	142068	TTC502	5K +10%	2.786	3950K	3mA	30mA	.59	.49	.39	.29
	142076	TTC103	10K +10%	2.859	4050K	2mA	20mA	.59	.49	.39	.29
	142084	TTC104	100K +10%	3.131	4400K	1mA	10mA	.59	.49	.39	.29

Radial Lead Varistors

Radial Lead Varistors ZA Series

- Low DC voltage applications
 Printed circuit board designs UL recognized as "transient voltage surge suppressors"
- Used for highly sensitive devices
 Low transient energy
- · Computer equipment · Alarm systems · Weight: .001 lbs.

					Cha	aracteris	tics at 25°C					
	ZA Series		Size	Vai	ristor Volta	age	Maximum Cla	mping Voltage				
			Disc.		1 mA DO			ue Current Oµs)				-
ı	Part	Product	Dia.	Min.	V _{N(dc)}	Max.	V	Ip=2.0A		Pricing	g	0EM
	Number	Number	(mm)	Volts	Volts	Volts	Volts	Amps	1	10	100	1000
ı	96891	V8ZA1	7	6.0	8.2	11.0	22	5	\$.35	\$.29	\$.25	\$.22

Radial Lead Varistors LA Series

 AC power line applications
 UL recognized as "transient voltage surge suppressors" UL recognized as "across-the-line components"
 High energy absorption
 Power supplies

1					. Ratin	gs (+85°	C) Characteri	stics at 25°C		-830		
ı	1.0	Series	Size	Conti	nuous	Transient	Maximum Cla	mping Voltage				
ı		061163	Disc.	RMS Voltage	DC Voltage	Energy (10/1000µs)	@ Ip Valu (8/2		344	46	3	4462
ı	Part	Product	Dia.	V _{m(ac)}	V _{m(dc)}	W _{tm}	V	Ip=2.0A		Pricin	g	OEM
ı	Number	Number	(mm)	Volts	Volts	Joules	Volts	Amps	1	10	100	1000
ı	34454	V130LA2	7	130	175	11	340	10	\$.39	\$.35	\$.29	\$.25
ı	34446	V130LA10A	14	130	175	38	340	50	.49	.39	.32	.29
ı	34462	V130LA20A	20	130	175	70	340	100	.75	.59	.49	.45
ı	34471	V250LA20A	14	250	330	72	650	50	.59	.49	.45	.39



\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less





OEM Pricing



We carry major manufacturers - call for large OEM pricing.

1/10 Watt Carbon Slide Potentiometers (±20%)

Vertical mount
 Type 448

Power rating: 0.1W @ 55°C

• Slide travel: 0.787" • Weight: .003 lbs.

· Voltage rating: 200VDC

Part No.	Product No.	Ohms	1	10	100	500
140564	PLB5K	5K	\$.75	\$.59	\$.45	\$.35
140572	PLB10K	10K	.75	.59	.45	.35
140581	PLB100K	100K	.75	.59	.45	.35

1/5 Watt Audio Taper B **Potentiometers**

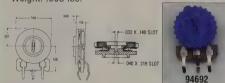
- Power ratings: 0.2W
- · Residual resistance:
- $< 5\Omega$ between T1 T2
- $< 5\Omega$ between T2 T3
- · Dielectric strength: 300VAC for one minute
- · Rotation angle: 280°
- Working life: > 10K cycles
- · Plastic vertical control shaft
- · Shaft diameter: 0.23
- . Shaft length: 0.3"
- . Base width: 0.4"
- · Base length: 0.5"
- Maximum panel thickness: 0.3
- · Weight: 0.004 lbs.

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80		_
10		
20	A-1-X-141-1	
20		
30	A-1-12/1-1-1	-
	30 30 10 30 60 30 NU N	190

138843 PAB10K 10K . 79 . 65 . 49 . 39	Part No.	Product No.	Ohms	1	10	50	100
	138827	PAB5K	5K	\$.79	\$.65	\$.49	\$.39
138851 PAB100K 100K .79 .65 .49 .39	138843	PAB10K	10K	.79	.65	.49	.39
	138851	PAB100K	100K	.79	.65	.49	.39

1/4 Watt 15mm Miniature **Potentiometers (±20%)** X201 (19/32") Vertical Mount

- Miniature size knob 15mm (19/32") diameter
- · Rim to quide screwdriver
- · Reliable CTS composition resistance element
- Power rating, watts: below 5kΩ 1/4 watt @ 40°C 5kΩ and above - 1/4 watt @ 55°C
- · Voltage rating: 350 VDC · Resistance taper: linear
- Angle of rotation: total rotation: 260° ±5°
- · Weight: .003 lbs.



Part No.	Product No.	Ohms	1	10	100
94692	X201R1K	1K	\$.49	\$.39	\$.29
35502	X201R252B	2.5K	.49	.39	.29
94713	X201R10K	10K	.49	.39	.29
94730	X201R100K	100K	.49	.39	.29

5 Watt Linear Taper Wire Wound Potentiometers (±20%)

- 5W @ 70°C Non-rotation kev 140556
- Temperature range: -10°C to 70°C
- Shaft diameter: 0.235" (6mm)
- Mounting hole: 0.32"
 Weight: .003 lbs.
- Max. panel thick.: 0.1" Shaft length: 0.67
- Solder evelet diameter: 0.055" x 0.13"

ı								
ı	Part No.	Product No.	Ohms	1	10	100	500	
ı	140513	PW5B100	100	\$2.95	\$2.65	\$2.25	\$1.95	
ı	140521	PW5B500	500	2.95	2.65	2.25	1.95	
ı	140548	PW5B1K	1K	2.95	2.65	2.25	1.95	
ı	140556	PW5B2K	2K	2.95	2.65	2.25	1.95	

1/2 Watt 1/4" Round Single-Turn **Cermet Potentiometers**

1/2 watt linear taper @ 85°C

· Sealed to withstand any wave soldering and immersion cleaning process

Extended temperature range: -55°C to +150°C • T0-5 grid Spect
• Top adjustment • Wt.: .002 lbs.

Terminals: solderable

L	312 (XII	J 70)					
	Equivalent to:						
	Beckman	82N					
	Bourns	3329F					
	Mepcopal	8050					
	MEC	471					
	1.4	00010					

e pins	Weston	56
о ро	44021011	50
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.10	(2.5	54)
(2.54)	الأناكات أن أنا أنا أ	,
	3	
	(8-1-19)	1
	2	.10

Beckman

Mepcopal

Bourns

Murata

Spectrol

Equivalent to: Beckman

Мерсора

Murata

Spectrol

3006P

2101P

43P

8034

3386P

3104P

8038

63P

40P

The state of the s						(2.04)	
Part No.	Product No.	Ohms	1	10	100	500	
95441	3329P1K	1K	\$.79	\$.69	\$.59	\$.39	
95450	3329P5K	5K	.89	.79	.69	.59	
96719	3329P10K	10K	.89	.79	.69	.59	
95484	3329P100K	100K	.89	.79	.69	.59	
95492	3329P1MEG	1M	.89	.79	.69	.59	

1/2 Watt 3/8" Square Single-Turn **Cermet Potentiometers (±10%)** Equivalent to:

- 1/2 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- TO-5 grid
 Top adjusting
- · Sealed to guard against contaminants . Wt.: .002 lbs.
- Temperature range:

-55°C to +125	30C	V IVIV	700-
33 0 10 +120		Weston	84
42964	188 ± .015 4.78 ± .38	3 1 2	10.54

	Part No.	Product No.	Ohms	1	10	100	500
Н	43123	63P500★	500	\$.79	\$.69	\$.59	\$.55
H.	42964	63P1K★	1K	.79	.69	.59	.43
Н	43043	63P2K	2K	.79	.69	.59	.55
Н	43078	63P5K★	5K	.79	.69	.59	.55
Н	43001	63P10K★	10K	.79	.69	.59	.55
IJ.	43051	63P20K★	20K	.79	.69	.59	.43
Ш	43107	63P50K★	50K	.79	.69	.59	.55
Ш	43027	63P100K★	100K	.79	.69	.59	.55
Н	43060	63P300K	300K	.49	.39	.25	.19
Ш	63212	63P500K	500K	.79	.69	.49	.45
H	42981	63P1MEG★	1M	.79	.69	.59	.55
Ш	105216	63P2MEG	2M	.69	.59	.35	.25

3/4 Watt 3/4" Rectangular 15-Turn **Cermet Potentiometers (±10%)**

- 3/4 watt linear taper @ 70°C PC pins: .100" grid (2.54mm)
- · Side adjusting
- Sealed to guard against contaminants Wt.: .003 lbs.
- Temperature range:
- -55°C

to +125°C	VRN	961-2
10 +125 6	Weston	830
41911	.500	.130 (3.30) .200 (5.08)

ı	Part No.	Product No.	Ohms	1	10	100	500
ı	41937	43P500★	500	\$.99	\$.89	\$.79	\$.69
ı	41785	43P1K★	1K	.99	.89	.79	.69
ı	41865	43P2K	2K	.99	.89	.79	.59
ı	41890	43P5K★	5K	.99	.89	.79	.69
ı	41822	43P10K★	10K	.99	.89	.79	.69
ı	41873	43P20K★	20K	.99	.89	.79	.69
ı	41911	43P50K★	50K	.99	.89	.79	.69
ı	41849	43P100K★	100K	.99	.89	.79	.69
1	41953	43P500K★	500K	.99	.89	.79	.69
ı	41806	43P1MEG★	1M	.99	.89	.79	.69

1/2 Watt Linear Taper Potentiometers (±10%)

- 1/2 watt @ 70°C
- Temperature range: -55°C to +125°C
- Non-slotted shaft end
 Non-rotation key
- Mounting hole: 0.3125"
 Weight: .03 lbs.
- Shaft diameter: 0.25"
 Shaft length: 0.5625"
- Max. panel thickness: 0.1875"
- Solder evelet diameter: 0.0625





1	10	100	500
\$.89	\$.79	\$.69	\$.59
.89	.79	.69	.59
.89	.79	.69	.59
.89	.79	.69	.59
.89	.79	.69	.59
	.89 .89 .89	\$.89 \$.79 .89 .79 .89 .79 .89 .79	\$.89 \$.79 \$.69 .89 .79 .69 .89 .79 .69 .89 .79 .69

2 Watt Linear Taper Potentiometers (±20%)

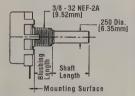
- 2 watt @ 70°C ambient
- Temperature range: -10°C to +70°C
- Mounting hole: 0.375
- (includes mounting hardware)
- Shaft diameter: 0.25"
- Shaft length: 0.825
- Solder eyelet dia: 0.075"
- · Max. panel thickness: 0.15"
- Non-rotation key
- Base length: 0.25"
 Wt.: .03 lbs.
- See knobs opposite page



Part No.	Product No.	Ohms	1	10	50	100
123959	PT1K	1K	\$2.95	\$2.65	\$2.25	\$1.95
123967	PT5K	5K	2.95	2.65	2.25	1.95
123975	PT10K	10K	2.95	2.65	2.25	1.95
123983	PT100K	100K		C	loseout	1.95

2 Watt Linear Taper Potentiometers (±10%) **Conductive Plastic Military RV4N-AYSD**

- Military No.: RV4N-AYSD
- Clarostat 53C3 / OHMITE CMU
- 2 watt @ 70°C ambient · Non-rotation key
- Temperature range: -55°C to +120°C
- Mounting hole: 0.375" (includes mounting hardware)
- Shaft diameter: 0.25"
 Shaft length: 0.875" (7/8")
- Solder eyelet dia: 0.0625" Weight: .08 lbs.
- Max. panel thickness: 0.25"
 Base length: 0.35"
- See knobs opposite page
 Slotted shaft end





	Part No.	Product No.	Uhms	1	10	50	100
ı	13936	CMU1021*	1K	\$6.95	\$5.95	\$4.95	\$4.35
ı	13995	CMU5021*	5K	6.95	5.95	4.95	4.35
ı	13952	CMU1031*	10K	6.95	5.95	4.95	4.35
ı	54869	CMU2531	25K	6.95	5.95	4.95	4.35
ı	95417	CMU5031	50K	6.95	5.95	4.95	4.35
ı	13979	CMU1041★	100K	6.95	5.95	4.95	4.35
ı	95425	CMU1052	1M	6.95	5.95	4.95	4.35
		Maria Cara de			_		



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com

DIP Switches



38842



139011

38800

- · Pre-tinned leads
- · Switch contacts: SPST Easy activation
 50VDC @ 100mA
 Wt.: .06 lbs.
- · Switches are numbered
- · Molded construction
- · Standard-raised lever (not on LP switches)
- LP low profile lever (switch is flush to casing)

136557

Compatible Jameco Socket Chart							
Switch	Socket	Switch	Socket	Switch	Socket		
109057	112192	38826	37161	101856	38113		
38818	51570	38834	37161	38797	38607		
139002	51570	38842	37372	139029	38607		
109065	37161	139011	37372	38800	39378		

Part Number	Product Number	No. of Pos.	1-9	10-99	100-249	250-999	1000+
109057	206-2	2	\$.69	\$.55	\$.45	\$.39	\$.35
38818	206-4*	4	.75	.65	.55	.45	.39
139002	206-4LP	4	.75	.65	.55	.45	.39
109065	206-5	5				Closeout	.19
38826	206-6	6	.75	.65	.55	.45	.39
38834	206-7	7	.75	.65	.55	.35	.25
38842	206-8*	8	.85	.69	.59	.49	.45
139011	206-8LP	8	.85	.69	.59	.49	.45
101856	206-9	9	.55	.45	.35	.25	.19
38797	206-10	10	.95	.75	.65	.55	.49
139029	206-10LP	10	.95	.75	.65	.55	.49
38800	206-12	12	.99	.79	.69	.59	.55

Mini Push-Button Binary Switches

- Operating temperature: -10°C to +65°C
- · 28VDC @ 10A · Straight PCB
- 0.12" character height Wt.: .01 lbs.
- Snap together
 Break before make

136557: positive logic ("0" all open output) 137197: reversed logic ("0" all common)

		a logic (o all collin			
	Product Number	Description	1-9	10-49	50-99
		10 pos. straight BCD sw.		\$3.49	\$2.95
137197	MX061N	10 pos mini PR RCD sw		Classon	2 95

Replacement Switches

For Computer Cases

For Jameco and most other cases

PC Toggle Switch

 For many desktop and large tower cases

 DPST • 250V @ 10A UL/CSA/VDE approved

Size: 1.2"L x 0.7"W x 1.1"D

Part No. Description Wt. (lbs.) **127036** PC toggle sw. .05.....\$1.95 \$1.49 \$1.19

PC Push Button Switch

- Alternate action switch (DP)
- 250V @ 7.5A
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D

Part No. Description Wt. (lbs.) 10-99 100-249 1-9 **127044** PC push button .04.....\$2.49 \$1.95

71 (1)

PC Rocker Switch

- · For mini-tower cases (P/N 20546 - pg 112)
- DPST 250V @ 10A
- UL/CSA approved

 Size: 0.9"L x 1.2"W x 1.4" D Part No. Description Wt. (lbs.)

1-9 10-99 100-249 .03....\$2.49 \$1.95 \$1.49

DIP Switches – Tri-State

• Labeled tri-state positions (+, 0, -) Switch contacts: bussed, tri-state

Raised switch lever with numbered switches • Two isolated busses

• 24VDC @ 25mA • Pre-tined leads • Molded construction • Wt.: .002 lbs. Part No. | Product No. | No. of Positions | Compatible Jameco Socket 1-9 10-99 100-249 138915 ETA104E 51570 \$1.49



138991

Rotary DIP Switches

1.75

- · Gold plated contacts to ensure reliable, low resistance connection
- · Molded-in terminals and fully sealed construction

138991 ETA108E

- Material: 94V-0 grade, UL approved fire retardant plastic
- Maximum load rating (switching): 25mA @ 24VDC
- · Operating force: 500gf-cm max. Life: 10,000 cycles min.
- Terminals: PC pin leads Shape: square · Color: blue

Top adjust size: 0.39"W x 0.2"D x 0.39"H • Side adjust size: 0.39"W x 0.3"D x 0.39"H



SALE



Part No.	Product No.	Position	Adjust	Code Type	1-9	10-99	100-249
139627	ERD108RS	8	top	Octal	\$2.95	\$2.49	\$1.95
139635	ERD110RS	10	top	BCD	2.95	2.49	1.95
139651	ERD116RS	16	top	Hex	2.95	2.49	1.95
139619	ERD108RR	8	side	Octal	3.49	3.15	2.75
139643	ERD110RR	10	side	BCD	3.49	3.15	2.75
139660	ERD116RR	16	side	Hex	3.95	3.49	2.95

Rotary Switches

- Mounting hole diameter = 3/8" Make before break Round shaft Washer and nut included • Insulation resistance: $10M\Omega$ (min.)
- · Compatible with Jameco rotary knobs 102787 and 104176 (pg 36)

· Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer

Contact rating: 0.3A@ 30VDC
 Contact resistance: 30mΩ
 Shaft size: 0.375"L x 0.25"Dia.

	,							
Part No.	Product No.	Poles	Positions	Description	Lead Type	1-9	10-99	100-999
101531	RS026	1	12	Panel mount	0.25" solder lugs	\$1.39	\$1.19	\$.89
101573	RS022	2	6	Panel mount	0.25" solder lugs	1.39	1.19	.89
101565	RS023	3	4	Panel mount	0.25" solder lugs	1.39	1.19	.89
101557	RS024	4	3	Panel mount	0.25" solder lugs	1.39	1.19	.75



Push-Button Binary Coded Decimal (BCD) Switch

Pushbutton and Thumbwheel Switch Specifications:

Contact resistance: 100mΩ max.
 Break before make
 0.15A @ 50VAC/28VDC
 Weight: .01 lbs.

Thumbwheel

Binary Coded

Decimal (BCD) Switch

• 1/16" maximum panel thickness

Gold plated BE-CU alloy contacts

· Continuous load: 1 amp max. Operating temperature: -40°C to +85°C

 Switches snap together · Front snap tab mounting

Part No. Product No. Description Char. Height 1-9 10-99 100-999 26788 MX72 10-position push-button 1.3"L x 0.4"W x 1.0"D 0.19 \$4.95 \$4.25 \$3.49 26761 MXEP2 End plates for MX72 99 .79 MX83 26817 10-position thumbwheel | 1.1"L x 0.1"W x 1.5"D 0.25 4.95 4.25 3.49 26770 MXEP3 End plates for MX83 .79 .65

SPST Round Keylock Switches

- Key removable from 2 positions
 Use for computer replacement
- Includes mounting nut
 Recommended for security systems

Mounting hole = 0.75" except P/N 106649 = 0.5"
 Wt.: 0.2 lbs. 22349

100-249 22349 KS1B 1, .49 Barrel 125VAC/3A \$3.25 105831 KS3B 2, .66 **SPST** 3.55 1.48" .25" quick connect 125VAC/6A 3.95 3.19 106649 KS4B 2. .21 .55" **SPST** Barrel 125VAC/3A 2.95 2.49 1.95 118279 KS8B .49 .49

106649 Part No. Product No. No. Flat, Dia. Length Voltage/Current Keys Style **Terminal** 10-99 1.97 125VAC/6A

\$.25

C&K Rota-Slide® Rotary Switch

- Mounting hole diameter = .385' (mounting nut included), positioning tab hole diameter = .130"
- Contact rating: 12A @ 125VAC/6A @ 250VAC Panel mount 0.25"Dia. shaft size Wt.: .02 lbs.

Part No. Product No. Positions Price 87652 SWH203 3

Otto Push-Button Micro Switch

 SPDT on (on)
 Weight: .003 lbs Contact rating: 7A @ 115/250VAC

Part No.	Product No.	Lead Type
98765	SWR2	Turret terminals

Rocker and Lever **Handle Switch**

- · Lead type: PC, right angle
- · Style: SPDT on-on
- · Contact rating: 5A @ 120VAC. 2A @ 250VAC
- · Rocker color: black
- Size: 0.7"H x 0.4"W x 0.5"D
- · Weight: .01 lbs.

Part No. Product No. Description 1-9 10-99 100+ 140530 CK7101 PC mount \$.99 \$.79

105831

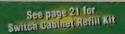


127028 PC rocker

\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less

99.7% 5 Availability



Full Size Toggle Switches

(Panel Mount)



- Mounting hole diameter: 1/2" · Full-size round lever
- Medium duty toggle switches (current range to 6 amp)
- Keyed plate indicates switch position
 Weight: .05 lbs.



Figure 2



											STATE OF THE PARTY
Part No.	Product No.	Figure	Type/Description	Dimensions (LxWxD)	Contact Rating	Lead Type	Lever Type	1-9	10-99	100-249	250-499
76241	SWM128	1	SPST on-off with on/off plate	1.00 x .56 x .52	4A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	\$1.09	\$.89	\$.69	\$.55
76259	SWM126	1	DPDT on-on with on/on plate		5A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
76232	SWM125	2	SPST on-off with on/off plate	1.00 x .53 x .51	6A @ 125VAC & 3A @ 250VAC	6" lead wire	Round	1.09	.89	.69	.55

Miniature Toggle Switches

- · Metal construction Pre-tinned leads
 SPST, SPDT and DPDT
- () momentary
 Mounting hole diameter: 1/4"
 Includes mounting hardware
 Some include non-rotation ring

Wide selection of leads, levers, and contact ratings









						and vertical m		3	Figure 4	Figure	5	Figu	re 6
Part No.	Product No.	Figure	Туре	o right ang		Dimensions (in.)		Load Tone	Laura Toma	4.0	40.00	400.040	050 100
		riguie		"				Lead Type	Lever Type	1-9	10-99	100-249	250-499
76523	JMT113★	3		on-off		.52 x .32 x .38	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	\$1.09	\$.89	\$.69	\$.49
21936	JMT123★	3	1	on-on	Panel mount	.52 x .32 x .38	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
21910	JMT121★	3	SPDT	on-off-on	Panel mount	.49 x .29 x .40	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
22832	LFH123	3	SPDT	on-on	Panel mount	.52 x .28 x .36	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Flat	1.49	1.25	.99	.79
75854	SWM132	3	SPDT	on-on	Panel mount	.52 x .32 x .37	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.55
75889	SWM129	3	SPDT	(on)-off-(on)	Panel mount	.52 x .32 x .37	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.15	.95	.75	.49
26331	MPC123	3	SPDT	on-on	PC mount	.49 x .29 x .42	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.15	.95	.75	.55
26315	MPC121	4	SPDT	on-off-on	PC mount	.49 x .30 x .42	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.15	.95	.75	.55
75862	SWM141	3	SPDT	on-on	PC mount	.38 x .32 x .38	6A @ 125VAC & 3A @ 250VAC	PC	Round	1.09	.89	.59	.49
71597	SW\$503	6	SPDT	on-on	Vert. mount	.52 x .32 x .39	5A @ 125VAC & 2A @ 250VAC	PC right angle	Round	1.09	.89	.69	.55
75871	SWM145	5	SPDT	on-on	Horiz. mount	.32 x .52 x .32	6A @ 125VAC & 3A @ 250VAC	PC right angle	Round	1.09	.89	.69	.49
22841	LFH221	-3	DPDT	on-off-on	Panel mount	.50 x .46 x .35	3A @ 125VAC & 1A @ 250VAC	Solder lugs	Flat	1.25	.99	.79	.65
21979	JMT223★	3	DPDT	on-on	Panel mount	.52 x .50 x .38	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.25	.99	.79	.65
22859	LFH223	3	DPDT	on-on	Panel mount	.50 x .46 x .40	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Flat	1.25	.99	.79	.65
105814	SWA208	3	DPDT	on-(on)	Panel mount	.50 x .46 x .41	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.15	.95	.59	.49
75900	SWM133	3	DPDT	on-on	Panel mount	.52 x .51 x .44	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
21952	JMT221★	3		on-off-on	Panel mount	.52 x .51 x .38	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
75951	SWM130	3	DPDT	(on)-off-(on)	Panel mount	.52 x .51 x .42	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.25	.99	.79	.65
26366	MPC223	3	DPDT	on-on	PC mount	.50 x .52 x .38	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.25	.99	.79	.65
26358	MPC221	3	DPDT	on-off-on	PC mount	.49 x .46 x .41	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.25	.99	.79	.65
	_		-										

Subminiature Toggle Switches

 Mounting hole diameter: 7/32"
 Includes mounting hardware Metal construction
 Pre-tinned leads
 Weight: .01 lbs.



Figure 7





Figure 9



Part No.	Product No.	Figure	Туре	Description	Dimensions (L" x W" x D")	Contact Rating	Lead Type	Lever Type	1-9	10-99	100-249	250-499
106067	SWP124	7	SPDT on-on	PC right angle	.25 x .33 x .34	.03A @ 5VDC	PC right angle	Round	\$1.39	\$1.15	\$.75	\$.69
72160	SW1501★	8	SPST on-off	Panel mount	.33 x .20 x .33	1.5A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
75969	SWM136	8	SPDT on-on	Panel mount	.33 x .20 x .33	3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
72557	SW1502	8	SPDT on-off-on	Panel mount	.33 x .20 x .33	1.5A @ 250VAC	Solder lugs	Round	1.25	.99	.75	.65
	SW1503	8	DPDT on-off-on	Panel mount	.36 x .33 x .33	3A @ 120VAC	Solder lugs	Round	1.75	1.49	1.25	1.09
75977	SWM137	9	DPDT on-on	Panel mount	.33 x .36 x .33	1.5A @ 250VAC	Solder lugs	Round	1.25	.99	.79	.65

Push Button Switches

- Alt = alternate action
- n.c. = normally closed
 n.o. = normally open

() momentary . Weight: .01 lbs. • P/N 95177: Quick connect/solder/fast-on right angle leads



















Pa		Product		Mounting Hole		Dimensions							
Nu	mber	Number	Figure	Diameter	Туре	(L" x W" x D")	Contact Rating	Lead Type	Description	1-9	10-99	100-249	250-499
	642	SWB210	10	7/32"	SPST n.o. (n.c.)	.25 x .32 x .36	1A @ 120VAC	PC, right angle	Black button	\$1.49	\$1.25	\$.99	\$.75
26	622	MS102★	11	1/4"	SPST n.o. (n.c.)	.57 (A) x 1.04 (B)	3A @ 125VAC	Solder	Red button	.45	.35	.31	.27
26	649	MS103★	11	1/4" .	SPST n.c. (n.o.)	.57 (A) x 1.04 (B)	3A @ 125VAC	Solder	Black button	.49	.39	.35	.32
12	1304	CK8121	12	1/4"	SPDT on-(on)	.50 x .27 x .40	1A @ 120VAC	Solder	White button	3.25	2.75	2.25	1.95
28	062	PB126	12	1/4"	SPDT on-(on)	.51 x .28 x .43	5A @ 120VAC	Solder	Red button	3.49	2.95	2.49	2.25
10	6112	MS333	15	5/8"	SPST n.o. (n.c.)	.63 (L) x .66 (Dia)	3A @ 110VAC	Solder Tab	Red button	.85	.69	.59	.49
11	9790	CK8168	19		SPST n.o. (n.c.)	.51 x .26 x .42	6A @ 120VAC	PC, right angle	White button			Closeout	.19
95	177	J3071	13	3/8"	SPST on-off, Alt	.50 x .47 x .40	2A @ 14VDC	Solder, right angle	White button	.95	.75	.65	.55
22	200	J1881	14	3/8"	SPST on-off, Alt	.65 x .52 x .28	2A @ 14VDC	Pigtail	White button	1.09	.89	.69	.55
22	218	J1882	14	3/8"	SPST n.o. (n.c.)	.65 x .52 x .28	2A @ 14VDC	Pigtail	Red button	1.09	.89	.69	.55
13	7189	PBS103	16		SPST n.o. (n.c.)	.47 x .47 x .16	50mA @ 12VDC	PC, pre-formed leads	Button switch	.45	.35	.31	.27
10	1012	PBS100	16		SPST n.o. (n.c.)	.47 x .47 x .16	20mA @ 15VDC	PC .	Recessed button	.29	.22	.19	.12
12	2972	PBS101	16		SPST n.o. (n.c.)	.47 x .47 x .17	20mA @ 15VDC	PC, pre-formed leads	Recessed button	.45	.35	.31	.22
100	9010	KTIIBICM★	16	'	SPST n.o. (n.c.)	.24 x .24 x .16	20mA @ 15VDC	PC, pre-formed leads	Button switch	.19	.15	.12	.09
		B3J1000	17		SPST n.o. (n.c.)	.70 x .47 x .35	50mA @ 24VDC	PC	White button			Closeeut	1.25
111	5086	KIE22	18	_	SPST n.o. (n.c.)	.24 x .24 x .22	20mA @ 15VDC	PC	Button switch	.25	.19	.15	.09

Slide Switches

- UL approved · Metal housing
- Black nylon actuator
 Two mounting flanges Phenolic insulated
 Top actuation
 Weight: .01 lbs.

106075







138894



					C. C. Contract							
Part Number	Product Number	Туре	Description	Contact Rating	Lead Type	Dimensions (L" x W" x D")	Length of Leads	Height of Actuator	1-9	10-99	100-499	500-999
106075	TSS11	SPDT on-off-on	PC right angle	.03A @ 5VDC	SIP .1"	.21 x .40 x .40	.15"	.10"	\$.59	\$.45	\$.25	\$.22
109170	SW153	SPDT on-on	PC mount	0.5A @ 50VDC	Solder pins	.22 x .45 x .23	.17"	.15"	.35	.29	.25	.22
138894	SW151	DPDT on-on	PC right angle	0.5A @ 50VDC	DIP .1"	.30 x .65 x .30	.28"	.27"	.35	.29	.25	.22
138886	SW141	SPDT on-on	PC panel mount	0.5A @ 125VDC	Solder pins	.29 x .88 x .54	.38"	.39"	.45	.39	.35	.29





Order Toll Free 1-800-831-4242



We carry major manufacturers – call for large OEM pricing.

DIP Relays





142594



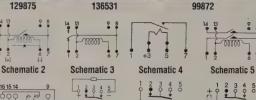






· Long life with reliable operation · Compact design/construction Excellent for PCB applications







CPClare SIEMENS Potter & Brumfield

· Compatible with IC sockets



· Weight: .02 lbs.

* Latel	ning type				Note: A	II relay s	chematics are sh	own from	n top 1	view exc	ept f	or Schem. 8, 9	and 10 which a	re botto	m view		
Part	Product		Contact		Coil	Contact		Contact	Pin	Jameco		Package	Leads		Pric	cing	
3	Number	Manufacturer	Form	Voltage		Schem.	Contact Voltage	Current			Fig.	LxWxH(in.)	A x B x C (in.)	1-9	10-49	50-99	100+
	201A05★	Excel Cell Electronics		5VDC	500Ω	1	100VDC	1A	8	37161	3	.78 x .25 x .20		\$2.25	\$1.95	\$1.69	\$1.49
	2D1A05	Excel Cell Electronics		5VDC	500Ω	2	100VDC	1A	8	37161	3		.10 x .40 x .35	2.25	1.95	1.69	1.49
555	201C12	Excel Cell Electronics		12VDC	500Ω	3	100VDC	.5A	8	37161	3		.10 x .40 x .30	3.95	3.49	3.15	2.85
1 60	JWS-117-3	Potter & Brumfield	SPST	12VDC	530Ω	4	20VDC	.5A	4	78641	4		.18 x .61 x —	2.25	1.95	1.69	1.25
	201A12	Excel Cell Electronics		12VDC	1000Ω	1	100VDC	1A	8	37161	3		.10 x .40 x .30	2.25	1.95	1.69	1.49
	2D1A12	Excel Cell Electronics		12VDC	1000Ω	2	100VDC	1A	8	37161	3		.10 x .40 x .35	2.25	1.95	1.69	1.49
3	201A24	Excel Cell Electronics		24VDC	2150Ω	1	100VDC	1A	8	37161	3		.10 x .40 x .30	1.95	1.75	1.49	1.19
	202A05	Excel Cell Electronics		5VDC	140Ω	5	100VDC	1A	8	37161	3		.10 x .40 x .30	2.95	2.65	2.39	2.15
	202A12	Excel Cell Electronics		12VDC	500Ω	5	100VDC	1A	8	37161	3		.10 x .40 x .30	3.95	3.49	3.15	2.85
	47SB05T	PED	DPDT	5VDC	36Ω	6	125VAC/100VDC	2A	8	37372	1		.20 x .40 x .30	2.25	1.95	1.69	1.49
	DS2EMDC5VC	Aromat	DPDT	5VDC	62.5Ω	6	125VAC/30VDC	.6A/1A	8	37372	1		.20 x .40 x .30	3.95	3.49	3.15	2.49
500 i	DS2EMDC5V	Aromat	DPDT	5VDC	62.5Ω	6	125VAC/30VDC	.6A/2A	8	37372	1		.20 x .40 x .30	4.75	4.25	3.75	3.25
18593	HB25★	Aromat	DPDT	5VDC	43.4Ω	7	125VAC/30VDC	1A/2A	8	37372	1		.10 x .20 x .30	5.49	4.95	4.49	3.95
99338	LM12C00	GI Clare	DPDT	6VDC	71Ω	6	125VAC/100VDC	2A	8	37372	1		.20 x .40 x .30	2.49	2.25	1.95	1.49
99311	DS2Y-S-DC12V	Aromat (NAIS)	DPDT	12VDC	720Ω	6	110VAC/30VDC	.3A/1A	8	37372	1		.20 x .40 x .30	4.95	4.49	3.95	3.49
99901	V23042-A2003	Siemens	DPDT	12VDC	600Ω	6	125VAC/100VDC	2A	8	37372	1		.20 x .40 x .30	4.95	4.49	3.95	2.95
18577	HB212★	Aromat	DPDT	12VDC	250Ω	7	125VAC/30VDC	.5A/1A	8	37372	1		.10 x .20 x .30	4.75	4.25	3.75	2.75
99320	LM12E00	GI Clare	DPDT	24VDC	1110Ω	6	125VAC/100VDC	2A	8	37372			.20 x .40 x .30	2.25	1.95	1.69	1.49
11000000		Shin Mei	DPDT	5VDC	125Ω	6	120VAC/30VDC	1A/2A	8	37372	1		.20 x .42 x .31	2.95	2.65	2.39	2.15
	TQ2-L2-5V	Aromat*	DPDT	5VDC	125Ω	8	125VAC/30VDC	.5A/1A	10		1	.55 x .35 x .20	.10 x .20 x .30	4.49	3.95	3.49	2.95
	TQ2E5V	Aromat	DPDT	5VDC	178Ω	9	125VAC/30VDC	.5A/1A	10		1	.55 x .35 x .20	.10 x .20 x .30	3.95	3.49	2.95	2.69
	TQ2E12V	Aromat	DPDT	12VDC	1028Ω	9	125VAC/30VDC	.5A/1A	10		1		.10 x .20 x .30	3.95	3.49	2.95	2.69
	DS2Y-S-DC24V	Aromat	DPDT	24VDC	2880Ω	6	125VAC/30VDC	.3A/1A	8	37372	1		10 x .30 x .30	3.49	2.95	2.75	2.49
	RSB24S	Shin Mei	DPDT	24VDC	2880Ω	6	120VAC/30VDC	1A/2A	8	37372	1		.20 x .42 x .31	2.95	2.65	2.39	2.15
	TF2-5V	Aromat	DPDT	5VDC	313Ω	10	125VAC/30VDC	.5A/1A	10	37161	1		.10 x .10 x .30	4.49	3.95	3.49	2.95
	TX2-5V	Aromat	DPDT	5VDC	178Ω	11	125VAC/30VDC	.5A/1A	8	_	1	.59 x .29 x .32	.10 x .20 x .20	3.25	2.75	2.49	2.25
	TX-12V	Aromat	DPDT	12VDC	1028Ω	11	125VAC/30VDC	.5A/1A	8		1		.10 x .20 x .20	3.25	2.75	2.49	2.25
	DS4EM-DC5VC	Aromat	4PDT	5VDC	62.5Ω	12	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .20	3.95	3.49	3.15	2.49
	T84S17D414-05	Potter & Brumfield	4PDT	5VDC	64.9Ω	12	120VAC/24VDC	.5A/1A	14	112299		1.40 x .40 x .36		3.95	3.49	3.15	2.49
99872	G6A-434P-ST-US	Omron	4PDT	5VDC	69Ω	12	110VAC/24VDC	.3A/1A	14	112299	2	1.39 x .39 x .30	.20 x .30 x .30	4.95	4.49	3.95	3.49
à.						Sn	lid State B	lelav	2					6	17	51	<u> </u>

Suna State Kelays



127790 (Fig. 1)



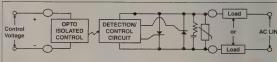
139053 (Fig. 2)



105081 (Fig. 3)







128952 Electrical Schematic

 Screw terminal with hardware (except P/N 127790) Photo isolation
 Metal mounting base Non-mechanical for reliability
 Fit most Jameco screw terminal and slide on style sockets
 Weight: 0.2 lbs.

Typical applications include input/output modules, solenoid driver, motor, blower, heater and temperature controls, control of relays, switching fans, TTL-compatible driver for contactors and replacing TRIAC/TRIAC drivers. All versions feature optical-isolation and normally open contacts, as well as DC/AC control switching. TTL- and CMOS-compatible, these units provide interface between logic and power systems, high transient immunity, high surge capability and they save PC board space. Typical applications require the use of heat sinks for these devices - see page 22 for heat sinks.

	Part	Product		Control		Contact	Contact			Terminal	Agency		Contact		Pric	ing	
	Number	Number	Manufacturer	Voltage	Type	Voltage	Current	Pins	Fig.	Туре	Approval	LxWxH(in.)	Style	1-4	5-9	10-24	25-99
		D2W202F	Crydom	3-28VDC	DC/AC	240VAC	2A	4	1	Solder Lead	_	1.7 x 0.4 x 1.3	SPST	\$8.95	\$7.95	\$7.25	\$6.49
	139053		Crydom	3-32VDC	DC/AC	240VAC	25A	4	2	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.0	SPST	19.95	17.95		14.49
	138940		Crydom	3-32VDC	DC/AC	240VAC	40A	4	2	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.0	SPST	24.95	22.49	19.95	17.95
	105081	615-8500	Teledyne	3-32VDC	DC/AC	250VAC	10A	4	3	Screw Terminal						13.49	11.95
á		T240D10	Gentron	3-32VDC	DC/AC	240VAC	10A	4	4	Screw Terminal						14.49	12.95
Made	128952	S240D25	Gentron	3-32VDC	DC/AC	240VAC	25A	4	4	Screw Terminal							
100	128961	S240D55	Gentron	3-32VDC	DC/AC	240VAC	55A	4	4	Screw Terminal						24.95	



\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less

Documentation available at ttp. jameco com

OEM Pricing

T90 Series

An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and heating, ventilating and air conditioning markets, they are also well suited for automotive load management and other applications.

129349

• Electrical life expectancy is 100,000 operations at rated loads

- PC board terminals
 UL class F insulation standard
- Mechanical life expectancy is 10 million operations
- Dielectric strength: 1,500Vrms (between contact and coil)

Weight: .06 lbs.

Operating temperature:

134931/134949: -40°C to +85°C: 104926/129349: -40°C to +125°C

00







104926

• 104926 : 0	pen frame relay • 1	129349: Imm	ersion cle	eanable, plastic seal	ed case • 1	1 44186 : For	r use with univ	versal relay card	(P/N 128	910 - pg 7	(0)
D	No. of co. of	0.11	0.11								

ı	Part	Product	Coil	Coil								Pric	ing	
ı	Number	Number	Voltage	(Ohms)	Contact Voltage	Contact Current	Pins	Terminal Type	LxWxH(In.)	Style	1-9	10-49	50-99	100+
I	134949	T9055012-5	5VDC	27	240VAC/28VDC	30A	6	PCB Solder	1.3 x 1.1 x .80	SPDT	\$2.95	\$2,49	\$1.95	\$1.75
1	104926	T90N5D12	12VDC	155	240VAC/28VDC	30A/20A	6	PCB Solder	1.2 x .90 x .63	SPDT	2.95	2.49	1.95	1.75
ı	129349	T9055D12-12	12VDC	155	277VAC/28VDC	20A/10A	6		1.2 x 1.0 x .75		3.25	2.75	2.25	1.95
ı	145752	T9051D12-12	12VDC	155	240VAC	30A	5	PCB Solder	1.2 x 1.0 x .77	SPST	2.95	2.49	2.25	1.65
ı	134931	T9055D12-24	24VDC	660	240VAC/28VDC	30A	6	PCB Solder	1.3 x 1.1 x .80	SPDT			Claseout	1,49
ı	144186	VR15M121C	12VDC	337	120VAC/28VDC	15A	5		0.8 x .64 x .80		4.75	4.25	3.75	3.25

Dielectric strength: 500VDC (between contact and coil)

• Operating temperature: -35°C to +85°C

· Normally open (NO), normally closed (NC)

· Weight: .01 lbs.

*29575 standard lead length .142"









		o cut icaus . I	00			1114	48		111448		29575			29575	
	Part	Product		Coil	Coil								Prici	ng	
	Number	Number	Manufacturer	Voltage	(Ohms)	Contact Voltage	Contact Current	Pins	Terminal Type	LxWxH(In.)	Style	1-9	10-49	50-99	100+
	111448	RC108T	Han Kuk	12VDC	550	250VAC/150VDC	0.1A	4	PCB Solder	1.0 x .37 x .38	SPST(NO)	\$.59	\$.45	\$.35	\$.25
I	134965	R4422-2	Electrol	12VDC	440	250VDC	1.0A	6	PCB Solder	1.0 x .35 x .25	DPST(NO)	.99	.79	.65	.45
ı	29575	RRJ10317	Standex*	12VDC	730	250VAC/150VDC	0.1A	4	PCB Solder	1.1 x .47 x .36	SPST(NC)	.99	.79	.65	.49
ı	117946	RRJ10317CL	Standex**	12VDC	730	250VAC/150VDC	0.1A	4	PCB Solder	1.1 x .47 x .36	SPST(NC)	.49	.35	.25	.15

T9A Series

Low Cost 30 Amp PC Board or Panel Mount Only

Mechanical life expectancy is 10 million operations

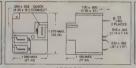
Weight: 0.1 lbs.

137349: • Operating temperature: -40°C to +70°C

 Dielectric strength: 1200VAC (between open contacts) 137365/137357: • Operating temperature: -55°C to +85°C

· Dielectric strength: 1500VAC (between open contacts)









137349 137349 137365 137365 137357 Part Potter & Brumfield Cnil Coil Pricing Number Equivalent **Contact Voltage Contact Current** Pins LxWxH (In.) Voltage (Ohms) Terminal Type Style 10-49 50-99 100+ .25" disconnect(2) 187" disconnect(2) 137349 T9AP1D52-12 12VDC 120 250VAC/28VDC 30A 4 2.0 x 1.25 x 1.25 SPST(NO) \$3.19 \$4.49 \$3.95 \$3.49 NO: 20A NC: 10A PCB Solder (5) .25" disconnect(3) T9AS5D22-12 137365 12VDC 155 240VAC/28VDC 5 1.25 x 1.0 x 1.25 **SPDT** 2.49 2.25 1.95 1.75 NO: 20A Solderless Quick Connec 137357 T9AS5D52-12 12VDC 155 240VAC/28VDC 5 2.0 x 1.16 x 1.8 **SPDT** 2.95 2.49 2.25 1.95

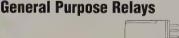
See page 46 for Socket

Pin Type Terminals - Series 250

Contact voltage: 120/240VAC, 28VDC @ 10 Amp

· Plug-in mounting with see-through dust covers

High dielectric strength
 AC or DC operated coils
 Ambient temperature operating: -10°C to +50°C
 Weight: 0.1 lbs







139740

139896



		NTE								Pricing	
Part No.	Product No.	Cross Reference	Coil (voltage)	Coil (Ohms)	Pins	Terminal Type	LxWxH(In.)	Style	1-9	10-24	25-49
139766	W250CPX6	R02-11D10-12	12VDC	120Ω	8	Pin type	1.4 x 1.4 x 2.7	DPDT	\$8.49	\$7.59	\$6.79
139782	W250CPX10	R02-14D10-12	12VDC	120Ω	11	Pin type	1.4 x 1.4 x 2.7	3PDT	9.49	8.49	7.59
139774	W250CPX7	R02-11D10-24	24VDC	470Ω	8	Pin type	1.4 x 1.4 x 2.7	DPDT	7.95	7.15	6.49
139731	W250ACPX8	R02-11A10-24	24VAC	85Ω	8	Pin type	1.4 x 1.4 x 2.7	DPDT	8.95	7.95	7.25
139740	W250ACPX9	R02-11A10-120	120VAC	1.9ΚΩ	8	Pin type	1.4 x 1.4 x 2.7	DPDT	8.95	7.95	7.25
139758	W250ACPX14	R02-14A10-120	120VAC	1.7ΚΩ	11	Pin type	1.4 x 1.4 x 2.7	3PDT	9.49	8.49	7.59

Quick Connect Blade Terminals - Series 388

Class 388 general purpose relays are an inexpensive high performing line of relays. Flat terminals (0.187" x 0.020") for standard plug-in mounting also accept

quick-connect receptacles or direct soldering. See page 46 for sockets

• Contact voltage: 120VAC/28VDC @13A/240VAC @ 10A • Ambient temperature operating: -30°C to +50°C • Weight: 0.1 lbs.



Ш			NTE								Pricing	
Ш	Part No.	Product No.	Cross Reference	Coil (voltage)	Coil (Ohms)	Pins	Terminal Type	LxWxH(In.)	Style	1-9	10-24	25-49
Н	139846	W388CPX10	R10-14D10-12	12VDC	120Ω	11	Quick connect	1.5 x 1.4 x 2.2	3PDT	\$8.95	\$7.95	\$7.25
Ш	139862	W388CPX7	R10-11D10-24	24VDC	460Ω	8	Quick connect	1.5 x 1.4 x 2.2	DPDT	7.95	7.25	6.49
Н	139854	W388CPX11	R10-14D10-24	24VDC	470Ω	11	Quick connect	1.5 x 1.4 x 2.2	3PDT	8.95	7.95	7.25
Н	139820	W388ACPX13	R10-14A10-24	24VAC	70Ω	11	Quick connect	1.5 x 1.4 x 2.2	3PDT	8.95	7.95	7.25
1	139838	W388ACPX14	R10-14A10-120	120VAC	2.13ΚΩ	11	Quick connect	1.5 x 1.4 x 2.2	3PDT	8.95	7.95	7.25

We carry major manufacturers - call for large OEM pricing.

Solder Tail .2" Terminal Connectors

- · Easy and fast way to do wire connections
- Blocks are expandable by snapping connectors together
- Materials: housing polyamide, green lever polyamide yellow



solder pin - brass, 0.5', tin plated 141743 · Clamping: push release, can be used with

- vertical or right angle wire insertion Standard pin spacing: 0.2"ctr., can be expanded up to 0.4" • UL/CSA approved
- Recommended wire thickness: 14-16 AWG
- Pitch: 5.08mm (0.2")
 Rated voltage: 300V @ 10A
- Pin dimension: 0.12"L x 0.04"W
- Size: 0.9"L x 0.5"W x 0.4"H
 Weight: .01 lbs.

Part No.	Description 1	-9	10-99	100+
141727	2 position solder tail\$.4	19	\$.45	\$.39
141735	3 position solder tail7	9	.69	.59
141743	4 position solder tail9	9	.89	.79

HARWIN M80 Series .079" **Vertical PC Tail Male Connectors**





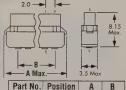
7				Friction lock or latch (when fitted)
Part No.	Position	Α	В	adds 0.5mm to overall length B
142501	2	7.6	2.0	35 A Max
142519	3	9.6	4.0	
142527	4	11.6	6.0	
146253	7	17.6	12.0	
				20+14 / 1

- Gold/tin latched Polarized moldings
- Fully shrouded contacts 2mm (.079") pin spacing Gold plating on contact area, tin/lead on tails
- Contact rating: 3.3A @ 25°C; 120V max.
- working voltage . Weight: .001 lbs.

Part No.	Description 1-9	10-99	100+
142501	2 pos., latched male\$1.29	\$1.19	\$1.09
142519	3 pos., latched male 1.39	1.29	1.19
142527	4 pos., latched male 1.49	1.39	1.29
146253	7 pos., latched male 1.69	1.55	1.39

HARWIN M80 Series .079" **Crimp Tail Female Connectors**





•	Polarized moldings
•	Fully shrouded contacts
•	Contacts are rear
	insertable

· Contact rating:

146261 17.3 | 12.0 3.3A @ 25°C; 120V max. working voltage Crimp barrel size: 24-28 AWG wire
 Wt.: .001 lbs.

142471

142480

142498

Part No. Description 10-99 \$.89 142471 2 pos., crimp tail female\$1.09 \$.99 142480 3 pos., crimp tail female..1.29 1.19 1.09 142498 4 pos., crimp tail female., 1.59 1 49 1 39 146261 7 pos., crimp tail female..2.39 1.95

Free HARWIN

Interconnect Cross-Reference CD-ROM available upon request!



molex

.093" Power Connector Plug, Receptacle and Pin Asst. Kits

These assortment kits contain mating sets of housings and pins. All kits include m and female tin plated standard brass .010" pins; 18-22 AWG crimp size wire. For quantity see table below.

Features and Benefits

- · Passive (friction) lock
- · Panel and PCB mountable
- · Male and female terminals may be used in either plug or receptacle housing

- Housing: nylon, UL94V-2
- Temperature: -40°C to +105°C
- · Weight: .05 lbs.

nale	Standard .093" Term Female	inal		Plug		Recepta	icle
Q	3.00) (21.97)					O Os	
₽	Male	in the	ches	B		1	_ c ·
	D ±005 D (±0.13) Panel Thickness 190 (2.29) Max. D ±005 E ±005 E (±0.13)	(n	(1) (2)	1 0 3	1000		3 6
Mou	enting Hole Detail	Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6
num	Dimensions (In.)	Panel	Cutout	Pin		Pricing	

Plug

Receptacle

Fig. 5

Fig. 4

Fig. 6

Part	Connector			Ma	ximum	Dime	ensions	(In.)	Panel	Cutout	Pin		Pricing	
Number	Туре	Qty.	Fig.	Amp.	Voltage	Α	В	C	D	E	Qty.	1-9	10-99	100+
142172	Receptacle	5	1	12	250		.230	1.030			7	¢0 DE	¢0.75	¢0.40
142172	Plug	5	1	12	250		.360	1.000		_	7	\$2.95	\$2.75	\$2.49
142181	Receptacle	3	2	12	250	.540	.250	1.030	.725	.312	8	2.95	0.75	0.40
142101	Plug	3	2	12	250	.640	.350	1.000	.800	.375	8	2.95	2.75	2.49
142199	Receptacle	3	3	12	250	.670	.240	1.010	.830	.312	11	3.95	3.49	2.05
142133	Plug	3	3	12	250	.770	.340	1.000	.933	.375	11	3.90	3.49	2.95
142201	Receptacle	2	4	9	250	.870	.240	1.030	1.038	.312	10	3.49	2 25	2.05
142201	Plug	2	4	9	250	.970	.340	1.000	1.131	.375	10	3.49	3.25	2.95
142210	Receptacle	2	5	9	250	1.070	.240	1.000		_	12	2.05	2.40	0.05
142210	Plug	2	5	9	250	1.180	.340	1.000		_	12	3.95	3.49	2.95
142228	Receptacle	2	6	9	250	.430	.630	1.020	.678	.600	14	2.05	2.40	0.05
142220	Plug	2	6	9	250	.540	.730	1.000	.750	.695	14	3.95	3.49	2.95

.062" Power Connector Plug, Receptacle and Pin Asst. Kits molex

Standard Crimp Terminal

Male

.062 (2.09) Female

.062 (1.58)

These assortment kits contain mating sets of housings and pins. All kits include male and female tin plated standard brass .008" pins; 18-24 AWG crimp size wire (insulation diameter .060"/.120"). For quantity see table below.

Features and Benefits

- · Friction lock
- · Panel and PCB mountable
- · Polarized housing assures proper mating
- · Male and female terminals may be used in both plug and receptacle housing

Fig. 1 Fig. 2 Fig. 3 Mounting Hole Detail

Conductor Insulation Crimp Area Crimp Area

Electrical Voltage: 250V
 Current: 5.0A
 Dielectric withstanding voltage: 1500VAC rms **Physical** Housing: nylon, UL94V-2
 Temperature: -40°C to +105°C
 Weight: .03 lbs.

Part	Connector			Ma	ximum	Dime	ensions	(ln.)	Panel	Cutout	Pin		Pricing	
Number	Type	Qty.	Fig.	Amp.	Voltage	Α	В	C	D	E	Qty.	1-9	10-99	100+
142105	Receptacle	5	1	5	250	.190		.780			7	60.05	¢2.40	\$0.0F
142103	Plug	5	1	5	250	.300		.750			7	\$3.95	\$3.49	\$2.95
142113	Receptacle	3	2	5	250	.340	.190	.810	.505	.265	8	2.05	2.40	2.05
142113	Plug	3	2	5	250	.440	.300	.780	.609	.318	8	3.95	3.49	2.95
142121	Receptacle	3	3	5	250	.480	.190	.780	.650	.265	11	4.05	4.40	0.05
142121	Plug	3	3	5	250	.590	.300	.750	.754	.318	11	4.95	4.49	3.95
142130	Receptacle	2	4	5	250	.630	.190	.780	.785	.260	10	E 0E	F 40	4.05
142130	Plug	2	4	5	250	.730	.290	.750	.865	.312	10	5.95	5.49	4.95
142164	Receptacle	2	5	5	250	.780	.190	.780	.940	.265	12	E 0E	F 40	4.05
142104	Plug	2	5	5	250	.890	.310	.750	1.044	.318	12	5.95	5.49	4.95
142148	Receptacle	2	6	5	250	.340	.490	.780	.552	.505	14	E 05	F 40	4.05
142140	Plug	2	6	5	250	.450	.600	.750	.615	.607	14	5.95	5.49	4.95

Terminal Extraction Tools molex For .093" and .062" contacts (above)

Part No. Product No. Wt. (lbs.) 1-9 10-99 100+ WHT2038 142236 Extraction tool for .093" pin and socket 08......\$14.95 \$13.49 \$11.95 142156 WHT2285 Extraction tool for .062" pin and socket .08.....**14.95** 13.49 11.95





SALE. Sale price to the right of banner good for that quantity, or less

2.0

4.0 9.3

11.3 6.0 We carry major manufacturers – call for pricing on quantities over 1000.

Solder Tail Low Profile Tin Plated IC Sockets

- Contact plating: tin
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Tin-plated tails
- Contact resistance: less than $5m\Omega$
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than $1000M\Omega$
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Lead length: .125"
- Body height: .156"
- · Weight: .01 lbs.



37372

Low Profile - Single Wipe - Tin Plated

Part No.	Product No.	Pins	Width (in.)	1-9	10-99	100-999
51570	8LP★	8	0.3	\$.10	\$.06	\$.05
37161	14LP★	14	0.3	10	.06	.05
37372	16LP★	16	0.3	12	.07	.04
111456	16LP33 [†]	16	0.3	.09	.05	.03
38113	18LP★	18	0.3	. 13	.08	.04
38607	20LP★	20	0.3	.16	.09	.07
39132	22LP	22	0.4	10	.06	.03
39335	24LP★	24	0.6	17	.10	.06
39378	24SLP	24	0.3	25	.19	.10
40301	28LP★	28	0.6	.19	.11	.09
77702	32LP	32	0.6	.19	.11	.09
41110	40LP★	40	0.6	.22	.15	.10

t with 0.33 µfd decoupling capacitor

Low Profile - Dual Wipe - Tin Plated

Part No.	Product No.	Pins	Width (in.)	1-9	10-99	100-999
112192	6LPD★	6	0.3\$.12	\$.07	\$.05
112205	8LPD★	8	0.3	.12	.07	.05
112213	14LPD★	14	0.3	.12	.07	.05
112221	16LPD★	16	0.3	.13	.08	.06
112230	18LPD	18	0.3	.17	.10	.08
112248	20LPD	20	0.3	.17	.10	.08
112264	24LPD	24	0.6	.19	.11	.07
112281	24SLPD	24	0.3	.29	.22	.15
112272	28LPD	28	0.6	.22	.15	.10
112299	28SLPD	28	0.3	.45	.35	.25
112301	32LPD	32	0.6	.22	.15	.10
112310	40LPD	40	0.6	.22	.15	.10
112310	4ULPD	40	0.6	.22	.15	10

Solder Tail Standard Gold Plated IC Sockets

- · Material: phosphor bronze
- · Contact plating: gold (dual wipe)
- Voltage rating: 250Vrms
- · Contact current: 1A
- Temperature range:
- -65°C to +125°C Contact resistance: 10mΩ - 30mΩ max.
- · Dielectric withstanding voltage: 500Vrms
- Insulation resistance: >5000MΩ
- Insulator: glass-filled polyester, black, UL 94V-0
- Lead length: .125"
 Body height: . 281"
- · Weight: .01 lbs.

Part No.	Product No.	Pins	Width (in.)	1-9	10-99	100-499
51633	8SG	8	0.3	\$.79	\$.65	\$.55
37209	14SG	14	0.3	99	.79	.69
37428	16SG	16	0.3	1.09	.89	.79
38640	20SG	20	0.3	.1.29	1.09	.95
41152	40SG	40	0.6		loseout	.79

Standard Wire Wrap (2 level) Gold and Tin Plated IC Sockets

- Contact plating: gold (WW) or tin (TWW) dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than $5m\Omega$
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than $1000M\Omega$
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Lead length: .438"
- Sleeve material: brass Body height: .281
- TWW = tin plated WW = gold plated Wt.: .01 lbs.

			7. 90.0 P	10.000	*****	01.00.
Part No.	Product No.	Pins	Width (in.)	1-9	10-99	100-499
51641	8WW★	8	0.3	\$.85	\$.65	\$.55
112660	WWT8	8	0.3	59	.45	.35
37233	14WW★	14	0.3	99	.79	.69
37217	14TWW★	14	0.3	75	.59	.49
37479	16WW★	16	0.3	1.09	.89	.79
37436	16TWW★	16	0.3	75	.59	.49
38148	18WW	18	0.3	1.19	.99	.69
87636	18TWW	18	0.3	85	.65	.55
38674	20WW★	20	0.3	1.35	1.15	.99
75379	20TWW	20	0.3	1.05	.85	.75
39394	24WW★	24	0.6	1.49	1.25	.99
75416	24TWW	24	0.6	1.09	.89	.79
40352	28WW★	28	0.6	1.75	1.49	1.25
75424	28TWW	28	0.6	1.19	.99	.89
41187	40WW★	40	0.6	2.25	1.95	1.75
41179	40TWW	40	0.6	1.39	1.19	1.05

Machine Tooled Wire Wrap (2 level) Gold Plated IC Sockets

- Contact plating: gold
- · Contact current: 3A
- Tin plated leads
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than $1000M\Omega$ Insulator: glass-filled polyester or glass-filled
- polyphenylene sulfide . Sleeve material: brass Lead length: .438" • Body height: .125" • Wt.: .01 lbs.

37410

1.95

- Pins Part No. Product No. Width (in.) 1-9 100-499 10-99 94473 8MSWW 0.3....\$.75 \$.59 \$.49 62050 14MSWW 0.399 .79 14 .69 0.3....1.05 **37410** 16MSWW 16 .85 .75 **94481** 18MSWW .99
- 0.3....1.15 .79 38631 20MSWW 20 0.3....1.35 1.15 94490 24MSWW 24 0.6....1.75 1.49 105371 24SMSWW 24 0.3....1.75 1.35 1.15 40336 28MSWW 28 0.6....1.95 1.65 1.29 117057 32MSWW 32 0.6....2.09 1.79 1.39
- **94502** 40MSWW Card-Edge **Connectors**
- · Fit all PC boards
- .054" to .070" thick
- · Weight: .05 lbs.



0.6....2.25

Solder Evelet .140" Spacing Between Rows

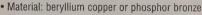
Part No.	Position	Contacts	Contact Centers	Mounting Ears	1-9	10-99	100-499
39116	22/44	Gold	.156	Yes\$2	.25	\$1.95	\$1.35

Solder Tail .200" Spacing Between Rows

105363 18/36	Tin (AT) .100	No\$.49	\$.35	\$.19
39108 22/44	Gold .156	Yes2.25	1.95	1.39
40694 31/62	Tin (PC/AT) .100	No1.29	1.09	.49
42091 49/98	Tin (AT) .100	No1.49	1.25	.85

Machine Tooled Low Profile Gold Plated IC Sockets

- · Contact plating: gold
- · Tin plated leads
- . Contact current: 3A
- · Contact resistance: less than 5mΩ



Dielectric withstanding voltage: 300Vrms

Insulation resistance: greater than 1000MΩ

· Insulator: glass-filled polyester or glass-filled polyphenylene sulfide . Sleeve material: brass

Lead length: .188"
 Body height: .125"
 Wt.: .01 lbs.

Part No.	Product No.	Pins	Width (in.) 1-9	10-991	100-499	500+
51625	8MLP★	8	0.3 \$.55	\$.39	\$.29	\$.25
37196	14MLP★	14	0.3 .59	.45	.35	.29
37401	16MLP★	16	0.3 .65	.49	.39	.35
65584	18MLP★	18	0.3 .69	.55	.45	.39
38623	20MLP★	20	0.3 85	.65	.55	.49
39351	24MLP★	24	0.6 .89	.69	.59	.45
39386	24SMLP	24	0.3 .89	.69	.59	.45
40328	28MLP★	28	0.6 .99	.79	.69	.55
114411	28SMLP	28	0.3 .95	.75	.45	.39
105380	32MLP	32	0.6 1.09	.89	.55	.45
41136	40MLP★	40	0.6 1.19	.95	.75	.65
138157	40MLPT	40 (T	in) 0.6 .85	.65	.45	.39
42059	48MLP	48	0.61.19	.99	.65	.55

Terminal Blocks

99397

· Materials: housing: polyimide; solder: brass tin plated wire protector: phosphor bronze; nickel plated



· Color: green

• 2 and 3 terminal blocks

Rated voltage: 300V @ 15A



99434



110007

PC Mount Terminal Blocks

Terminals are interlocking with like type (side, 45°)

- Superior elevator wire clamp
 Wt.: .01 lbs.
- · Modular housings: END to END stackability
- High temperature housing withstands wave soldering

Side Entry

Part Number Fig.	Terminals		Lead Spacing (Inches)		10-99	100-999
99426 * 1	2	0.4	0.197	\$.59	\$.45	\$.35
99397 * 1	3	0.6	0.197	89	.69	.59
		45° E	ntry			

			40	Entry		
99389	2	2	0.4	0.197 \$.59	\$.45	\$.35
99434	2	3	0.6	0.19789	.69	.59

Terminal Block Plugs

- Pluggable header
- Shrouded header protects header pins
- · High temperature housing withstands wave soldering

Part Number	Fig.			Lead Spacing (Inches)	1-9	10-99	100-499
109997	3	2	0.4	0.2	Ck	secut	\$.49
110007	3	3	0.6	0.21	.49	1.25	.79

IDC Card-Edge Connector

Contact fingers on .100" centers

- · Mates with doublesided 1/16" PC board
- Mass termination Gold contacts
- · Current rating: 1 amp · Plastic · No soldering
- Use 73251 IDC crimping tool (pg 47) Wt.: .03 lbs Part No. Product No. Contacts
- Price 14875 C50 50..... \$.69



Connectors, Headers, IDC Bench Press and Accessories

RCA Jacks





112475



- · Precision shape guarantees firm contact
- Well anchored insulators prevent turning and wires pulling loose
- · See page 126 for RCA cables
- · Weight: .006 lbs.

Part No.	Description (Pkg.)	W x D x H (inches)	1-9	10-99	100-999
100992	RCA jack with breaking contacts	.75 x .73 x .56	Clas	eout	\$.05
112475	RCA right angle PC mount jack	.42 x .57 x .48	.45	.35	.25

Standard and Mini **DIN Male Plugs**

w/ Strain Relief

- · Solder barrels
- · See page 51 for cable



vveign	102 105.		13000				
Part No.	Product No.	Pins	Type 1-9	10-99	100-499		
142279	4MDP	4	Mini\$.99	\$.79	\$.55		
142261	6MDP	6	Mini99	.79	.55		
111878	8MDP	8	Mini99	.79	.65		
15878	DINP5	5	Standard45	.35	.25		
15886	DINP6	6	Standard55	.39	.29		
15894	DINP8	8	Standard59	.45	.35		

Standard and Mini **Female Sockets**

- Metal body
 Panel mount
- Solder lugs
 Weight: .01
- P/N 142877: Mini DIN sock

	10.7			1	
	EST E			À	
bs.					
t PS	32	158	851		

1 / 3 4 1 1	LOTT. IVIII	III DIII	300101102	10001	
Part No.	Product No.	Socket	Type 1-9	10-99	100-499
142869	MDINJ4	4	Mini\$.75	\$.59	\$.45
142877	MDINJ6	6	Mini	.65	.49
15843	DINJ5★	5	Standard59	.45	.35
15851	DINJ6	6	Standard75	.59	.45
15860	DINJ8	8	Standard85	.69	.55

Standard Right Angle DIN Female Sockets

- Plastic body
 Set back: 0.5
- PC mount contacts Weight: 01 lbs

Part No.	Product No.	Socket	1-9	10-99	100-499
140791	749181	4 (mini)	\$.69	\$.55	\$.32
29399	RD5	5	69	.55	.39
119474	749265	6 (mini) PS	/269	.55	.35

PanaVise IDC Bench Press and Accessories

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.

- · Includes assembly base and standard platen
- Size: 10.0"W x 8.8"D x 9.0"H

Part Number	Product Number	Description	Wt. (lbs.)	Price
27174	M505	IDC bench press	7.0\$	164.95

27182

M505 Accessories

27182	M507	Flat ribbon cable cutter	0.9\$69.95
27203	M510	Connector base plate	0.529.95

.100" Straight Male Headers

With Standard Latch

Double Row

- · Gold-plated square pins
- · Locking/ejecting ears
- 0.1" contact center Keying slot
- · Mount vertical or horizontal
- · Weight: .02 lbs.
- Use with IDC socket connectors (see right)

Part No.	Description	1-9	10-99	100-499
117663	10-pin	\$.69	\$.55	\$.39
71503	14-pin	75	.59	.32
71829	20-pin		.65	.29
71933	26-pin		.69	.45
72039	34-pin		69	.45
72135	40-pin	1.09	.89	.55
72215	50-pin	1.25	.99	.65
		_		

.156" Center Straight-Friction **Lock Headers**

- · Ideal for AC and DC power distribution
- Voltage rating: 250VAC/VDC max. · Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- · Header material: pin: brass tin/plated
- Base: nylon 66, UL94V-2

•	W	e	g	1		U	1	l	bs.	
---	---	---	---	---	--	---	---	---	-----	--

eroigiit.	.01 100.					
Part No.	Product No.	Pins	1-9	10-99	100-499	5004
104782	LMH3	3	.\$.29	\$.22	\$.14	\$.10
104791	LMH4	4	35	.25	.17	.13
104803	LMH5	5	39	.29	.17	.14
104811	LMH6	6	45	.35	.25	.17
104846	LMH10	10	55	.39	.29	.22

.156" Center Housings

- · Common to many of the power supplies carried by Jameco. Some power supplies (pgs 64-68) may require multiple connectors
- · Housing material: nylon 66, UL94V-2 • Weight: .01 lbs
- · Use with crimp pins (P/N 78318 - below)



Part No.	Product No.	Pins	1-9	10-99	100-499	500+
104432	LCH3	3	\$.22	\$.17	\$.12	\$.06
104715	LCH4	4	29	.22	.17	.10
104723	LCH5	5	39	.29	.19	.12
104731	LCH6	6	45	.35	.25	.15
104766	LCH10	10	55	.39	.29	.15

The above .156" headers and housings can be used with many of our power supplies listed on pages 64-68.

.156" Center Crimp Pin

- Use 99442 crimping tool (below)
- · Material: brass tin plate
- Pin wire gauge: 22-26 AWG
- · Weight: .001 lbs.

Part No. Product No. Description



Jameco Crimping Tool

- For computer pins and sockets. D-sub: 28-26 AWG wire
- · For butt-insulated connectors. telephone spade lugs: 26-22 AWG wire



- · For non-insulated connectors: 22-20 AWG wire · For non-insulated connectors: 18-14 AWG wire
- Size: 7.3"L x 1.5"W Part No. Product No. Description

99442 H202A

· Weight: 0.5 lbs. Crimping tool\$7.95 \$7.25

.025"Sq. or Dia. posts on patterns of .100" centers (male headers, see left and opposite page)

.100" and 2mm IDC Socket Connectors

(100386): 2mm pin spacing; use P/N 100781 2mm

Double Row

· Mates with 2 rows of

ribbon cable (pg 51) • Current rating: 1 amp
• Industry standard IDC socket (plastic)
• Temperature rating: -55°C to +105°C • Weight: .02 lbs.
• Use P/N 73251 (pg 47), insulation displacement connection crimper for these connectors

Polarized IDC Socket Connectors

Part No.	Product No.	Contacts	1-9	10	100	500+
32491	S10★	10	\$.45	\$.35	\$.25	\$.15
119466	S16★	16	55	.39	.29	.19
32521	S20★	20	55	.39	.29	.25
32563	S26★	26	59	.45	.35	.29
32643	S34★	34	69	.55	.39	.25
32678	S40★	40	85	.69	.55	.35
100386	IDC440	44(2mm	1.75	1.49	1.29	1.09
32707	S50★	50	95	.75	.59	.49
32758	S60	60	1.09	.89	.59	.49

Non-Polarized IDC Socket Connectors

Part No.	Product No.	Contacts	1-9	10	100	500+
138376	SN10	10	\$.45	\$.35	\$.25	\$.15
138325	SN20	20	55	.39	.25	.22
138333	SN26	26	55	.39	.25	.22
138341	SN34	34	69	.55	.39	.25
138350	SN40	40	85	.69	.45	.35
138368	SN50	50	95	.75	.55	.45

.100" Straight Low-Profile **Shrouded Male Headers**

- . Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid

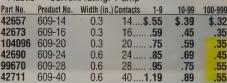
42673

- Housing material: glass filled polyester, gray, UL94V-0 · Contact: phosphor bronze, gold-plated · Wt.: .01 lbs.
- Use with IDC socket connectors (see above

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Part No.	Description	1-9	10-99	100-999	1000+
67811	10-pin	\$.39	\$.29	\$.19	\$.13
68179	16-pin	45	.35	.25	.15
68291	20-pin	55	.39	.29	.19
68371	26-pin	69	.55	.39	.22
68582	34-pin	75	.59	.35	.29

.100" IDC DIP Flat Cable Plugs

- · Mates with standard 14, 16, 18, 20, 24, 28 & 40-pin DIP sockets with 0.1" spacing . Wt.: .01 lbs.
- Uses 28 AWG flat ribbon cable (pg 51) • Gold-plated contacts
- · Plastic · Current rating: 1 amp



.100" IDC Plug Connectors

Double Row

42657

- · Shrouded header w/o mounting ears
- .100" x .100" arid
- Current rating: 1 amp Plastic 29217 Contact: phosphor bronze, gold-plated
 Wt.: 0.02 lbs. Use with IDC socket for connectors (see above)

Part No.	Product No.	Contacts	1-9	10-49	50-99
29153	P20	20	C	loseout	\$.49
29161	P26	26	1.49	1.29	1.09
29170	P34	34	1.95	1.75	1.25
29188	P40	40	2.25	1.95	1.49
29217	P50	50	2.75	2.25	1.75

\$1.39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less

27174



Also available at your local JIM-PAK retailer - see page 128

03253 1000 \$.19

.25 .29

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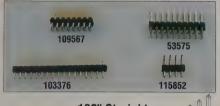
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78326

DEM

.100" Male Headers (Gold)

- · Snap apart to fit your application
- · Solder to PC boards for instant plug-in access via shorting blocks (right)
- .025" square posts on a 100" x .100" matrix
- Weight: .01 lbs.
- · Contact material: phosphor bronze
- · Contact area: gold
- · Current rating: 1 amp
- · Temperature range: -55°C to +120°C
- · Insulation material: glass filled polyester
- Use with crimp connector housing (pg 44)



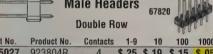
.100" Straight **Male Headers**

Single Row



Part No.	Product No.	Contacts 1-9	10	100	1000
108337	SMH02	2\$.19	\$.12	\$.08	\$.04
109575	SMH03	322	.15	.10	.05
117559	SMH04	425	.19	.15	.06
108901	SMH08T(Tin)	8 .29	.22	.15	.05
103392	SMH10	10 .39	.29	.19	.08
103376	SMH17	17 .45	.35	.25	.13
103368	SMH20	20 .45	.35	.25	.13
103350	SMH25	25 45	.35	.25	.13
103341	SMH30	30 .55	.45	.35	.15
68339	SMH36	36 .59	.49	.39	.22

.100" Straight **Male Headers**



ratt Nu.	Product No.	Comacis	1-9	10	100	1000
115027	923804R	4	\$.25	\$.19	\$.15	\$.05
115035	923806R	6	35	.25	.17	.06
109516	923808R	8	39	.29	.19	.08
67820	923810R	10	45	.35	.25	.10
118455	923714R	14	45	.35	.25	.11
109567	923816R	16	45	.35	.25	.15
53479	923862R	20	49	.39	.29	.14
53495	923863R	26	55	.45	.35	.15
53516	923864R	34	59	.49	.39	.17
115019	923864RT(Tir	n) 34		Cl	oseout	.59
53532	923865R	40	65	.55	.45	.22
53559	923866R	50	75	.59	.49	.25
68574	923860R	60	79	.65	.45	.29
109524	923772RT(Tir	n) 72	59	.49	.39	.22
103405	923772R	72	89	.75	.59	.32
117196	923780	80	99	.79	.65	.35

.100" Right Angle **Male Headers**

		Double Ro	W	Alexander	5	3575
t No.	Product No.	Contacts	1-9	10	100	1000
575	923872R	20\$.75	\$.59	\$.45	\$.29
583	923873R	26	.79	.65	.49	.29
604	923875R	40	.89	.75	.59	.39
612	923876R	50	.99	.79	.49	.39
3413	923672R	721	.09	.89	.59	.49

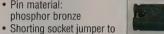
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Single Row						
Part No.	Product No.	Contacts	1-9	10	100	100
115852	RMH04	4		Clo	seout	\$.0
402270	DRALLOC	0.0	70	CE	40	

We carry major manufacturers - call for large OEM pricing. .100" and 2mm Shorting Blocks Mate with Male Headers (left)

· Pin material: phosphor bronze

address or code strip line





112432

plugs (male header, left below) Mates to .025" square posts on .100" centers

 22023 is open on top to allow for a test point while 19140 is closed - functionally they are the same

• 119263	3, 119458 2mm shorting	j blks	(for d	isk dr	ives)
	Description		10		
22023*	Top open, black	\$.20	\$.13	\$.09	\$.06
	Top open, black (2mm)				
112424	Top open, blue	23	.17	.10	.08
112416	Top open, red	23	.17	.10	.08
19140*	Top closed, black	20	.13	.09	.06
119458	Top closed, black (2mm)	.23	.17	,10	.08
112441	Top closed, blue	23	.17	.13	.10
112432	Top closed, red	23	.17	.10	.08

.100" Female Header Receptacles

Single row right angle-side entry (A)

Double row right angleside entry (A) Single row vertical

mount-top entry (B)



 Gold plated contacts
 0.1" contact center
 Wt.: .008 lbs. Right-Angle Mount (Side Entry) - A

D - 1 11-	a			,,		
Part No.	Contacts	_type	1-9	10	100	1000
70746	8	single ro	w \$.55	\$.45	\$.25	\$.22
71159	20	double ro	w 1.49	1.25	.75	.65
			nt (Top Ent	ry) – B		
Part No	Contacte	Tyne	1.0	10	100	1000

70754 single row.....\$.49 \$.39 \$.29 70720 16 double row99 .65 70826 double row ... 1.09 49 69 double row..... 109559 .19 105056 double row 1.25 .55 111704 double row (Tin) .95 .65

.100" Non-Polarized Connector Housing and Crimp Pins

Mates with .025" square post on pattern of .100" centers (male headers, see left and pg 44)

• Current rating: 1 amp • Pin material: brass tin plate • Pin wire gauge: 26-22 AWG • Plastic • Wt.: .004 lbs. • Temperature rating: -55°C to +105°C

• Use 99442 pin crimper (pg 44) for 100765 pins

1111		Single Row	6.	ار را	/			Double Row		
iki baki l	11.1.11.11.21	103190	0	1007	65	7.7	(Side View)			
rt No.	Product No.	Contacts 1-9	10	100	1000	V -	(Top View)			
10811	SCH2	2\$.25	\$.19	\$.15	\$.10	KX				
10802	SCH4 _	435	.25	.17	.12	~	145357			
13211	SCH6	6 39	.29	.19	.10	David No.		0	40	400
3202	SCH8	845	.35	.19	.12	Part No.	Product No.	Contacts 1-9	10	100
3190	SCH10	1049	.39	.25	.15	103253	DCH8	8\$.55	\$.45	\$.35
3181	SCH20	20	.49	.29	.19	103237	DCH16	16 .65	.55	.35
3157	SCH36	36 69	.59	.39	.25	103229	DCH20	20	.65	.39
0765	FCH1	Female pin .12	.08	.06	.05	100765	FCH1	Female pin .12	.08	.06
5357	MCH1	Male pin12	.08	.06	.05	145357	MCH1	Male pin12	.08	.06

Power Connectors, Housings, Pins and Tools

Connector & Housing Specifications:

· Housing material: white nylon 6/6 UL94V-2

Voltage rating: 250VAC (Mate-N-Lock 600VAC)

• Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

· Material: brass, pre-tin

10

100

. Current rating: 1.5 amps

· Wire size range: 24-18 AWG

Use crimp tool P/N 99442 (pg 44)

42067 & 42075 Connector Housings: · Keyed mating connectors

· External key bar indicates pin 1

131879 & 131887 Extraction Tools:

114921

114930

42729 (Male for 42075,109196) 42075 (Male) 42067 (Female)

109145 Quickly and easily extracts 0.93" locking pins from interlocking connectors 131887

· Heavy duty metal construction · Includes directions

Part No.	Product No.	Description			1-99	100	1000
114999	171826	4-pin male right angle PCB mounting	conn. for 3.5"	disk drive &	pwr supp. \$.55	\$.45	\$.25
132927	171824	4-pin male straight PC mount conn	. for 3.5" disk	drive & pwi	supp	Closeout	.12
114930	171822					.17	.10
114921	170262					.06	.04
109145	109145	4-pin male vertical PCB mounting cor	nn. for 5.25" flo	oppy drives &	pwr supp49	.39	.35
117567	175305	4-pin male PCB mounting conn. for 5.2	25" floppy drive	s, horizontal	edge mount .49	.39	.29
42075	480426					.17	.13
42067	480424					.22	.15
42729	61118					.06	.05
42649	60619					.07	.06
78300	AMP60G					.35	.25
78326	AMP50G					.25	.12
78318	AMP501T	Female crimp pin for 78326	*************			.06	.04
Part No.	Product No.	Description	Length	Weight		1-9	10-24
131887	HT319C	Male extraction tool for 42729	5"	0.1 lbs		\$10.95	\$9.95
131879	HT319B	Female extraction tool for 42649	5"	0.1 lbs		10.95	9.95
	114999 132927 114930 114921 109145 117567 42075 42067 42729 42649 78300 78326 78318 Part No.	114999 171826 132927 171824 114930 171822 114921 170262 109145 109145 117567 175305 42075 480426 42067 480424 42069 6019 78300 AMP60G 78326 AMP50G 78318 AMP501T Part No. Product No. 131887 HT319C	4-pin male straight PC mount connumber of the pin female connector housing for 3 depin female crimp pin for 114930 depin male vertical PCB mounting connumber of the pin male PCB mounting connumber of the pin male PCB mounting connumber of the pin male connector housing for 5. depin male crimp pin for 42075 and 10919 depin male pin for 42075 and 10919 depin depin for 42075 and 10919 depin depin for 42075 and 10919 depin for 42075 and 10919 depin	4-pin male right angle PCB mounting conn. for 3.5" disk drive female crimp pin for 114930	4-pin male right angle PCB mounting conn. for 3.5" disk drive & 4-pin male straight PC mount conn. for 3.5" disk drive & pwi 4-pin female connector housing for 3.5" disk drive and power streamle crimp pin for 114930	4-pin male right angle PCB mounting conn. for 3.5" disk drive & pwr supp. \$.55 132927 171824 114930 171822 4-pin male straight PC mount conn. for 3.5" disk drive & pwr supp	171826 4-pin male right angle PCB mounting conn. for 3.5" disk drive & pwr supp. \$.55 \$.45

923680R

139563

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Sockets, Header Plugs and Accessories

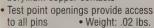
QARIES Low Profile ZIF Sockets

Provides a low cost solution for ZIF test socket requirements. It has a height of only .319" (8.10mm), and even with the handle in open position measures just .554" (14.07mm).



· Cast metal cam · Strong rigid cam provides uniform action over entire contact area

· Tin plated, spring tempered beryllium copper contacts



Mancai Andrew	Marie Contract
Outside Test Poin	an Danish and a second
cess	102752

to all p	71110	weight.	UZ 105.		
art No.	Product No.	Pins	1-9	10-24	25-49
02744	28-526-10	28	\$4.49	\$3.95	\$3.49
02752	40-526-10	40	5.25	4.75	4.25

OARIES Universal ZIF Sockets

103991

- · UL94V-0 rated body
- 1000MΩ insulation resistance
- 25.000 to 50.000 contact cycles
- Accepts .300" to .600"
- IC centers x .1" spacing Solder directly to PCB or plug directly into
- IC socket

· Screw mounting holes for more reliable operation . Weight: 0.1 lbs.

Part No.	Product No.	Pins	1-9	10-49
103991	24-6554-10	24	\$5.95	\$4.95
104002	28-6554-10	28	6.95	5.95
104011	32-6554-10	32	7.95	6.95
104029	40-6554-10	40	8.75	7.25
			**	

3M ZIF Sockets

- · Easy access lock and release lever
- Body ht: .47'
- Tin pins and contacts
- Socket lead length: 11

				_		
39415	240-3346	40	.051	6.95	15.25	13.75
39239	228-3345	28	.05 1	2.95	11.75	10.49
39079	216-3340	16	.05\$	9.95	\$8.75	\$7.75
Part No.	Product No.	Pins	Wt. (lbs.)	1-4	5-9	10-24
00010	or loud long		1		39239	

SIMM and SIPP Sockets



72389 100301 72426 72531 78641

- Memory module sockets
 Locking tabs
- Keyed mounting posts · Tinned contacts

AMECO

vveigiit	02 108.			
Part No.	Description	1-9	10-99	100-999
100301	Single x 30-pin, vertical SIMM :	\$.75	\$.59	\$.45
72389	Dual x 30-pin, angled SIMM	.25	.19	.10
72531	Dual x 30-pin, vertical SIMM	.79	.59	.45
72426	Single x 72-pin, vertical SIMM	.79	.59	.25
117541	Single x 8-pin SIPP	.10	.07	.03
102200	Single x 10-pin SIPP	.29	.25	.15
109436	Single x 12-pin SIPP	.12	.08	.03
101282	Single x 20-pin SIPP	.49	.39	.19
78641	Single x 30-pin SIPP	.75	.65	.55
104053	Single x 30-pin SIPP (wire wran):	2.35	1.95	1.65

Relay Series Socket 250

- 250VAC Current: 20 Amps
- · #6 screwdown terminals recommend P/N 103683 or 103587 solderless terminals (pg 49)
- · #8 screws for mounting
- · DIN rail mountable
 - 141145: Use with relays P/N 139766, 139774, 139731 or 139740 (pg 41)
 - Size: 2.0"L x 1.6"W x 0.8"H
 - Weight: 0.08 lbs.
 - 141153: Use with relays P/N 139782, 139758 (pg 41)
 - Size: 2.0"L x 1.7"W x 1.2"H
 Weight: 0.1 lbs.

		•		
Part No.	Product No.	Pins 1-9	10-49	50-99
141145	R95-113	8\$3.49	\$2.95	\$2.65
141153	R95-114	113.95	3.49	2.95

Relay Series Socket 388

- 250VAC Current: 20 Amps
- · Use with relays P/N 139846, 139862, 139854, 139820 or 139838 (pg 41)
- #6 screwdown terminals recommend P/N 103683 or 103587 solderless terminals (pg 49)
- #8 screws for mounting DIN rail mountable
- Size: 3.0"L x 1.4"W 1.0"H Weight: 0.2 lbs.

Part No.	Product No.	Pins	1-9	10-49	50-99
141161	R95-115	11	\$5.49	\$4.95	\$4.49
- التناس					

14-Pin Crystal Oscillator Socket

- · Low profile solder tail
- For full-can oscillators (pg 23)
- 14-pin style, but with only the 4 corner pins (machine tooled); they can be PCB

mounted without the modifications that would be needed with DIP-IC sockets

- · Good for prototyping and PCB mounting
- · Weight: .001 lbs.

Part No.	Description	1-9	10-49	50-99	100
133006	Oscillator socket \$1	.05	\$.85	\$.65	\$.45

16/18-Pin DRAM Option Socket

Allows flexibility in using 16 or 18-pin DRAMs

- · Contact plating: tin · Dual wipe · Material: beryllium copper or phosphor bronze
- · Contact current: 1A
- Tin-plated tails Contact resistance: less than $5m\Omega$
- · Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide . Sleeve material: brass
- Lead lgth: .125" Body ht.: .156" Weight: .003 lbs.

Part No.	Product No.	Description	1-9	10-99	100-999
119626	34LPDD	34-pin	\$.10	\$.06	\$.02
			7		

MARIES Collet Pin Carriers

Use Aries precision stamped collet pin insertion carriers and eliminate time consuming hand insertion of pins.

· Contact: collet beryllium copper

· Plating: gold collet/tin shell only

. Body: brass . Weight: .01 lbs. Part No. Description Width (in.) 1-9 10-99 118199 14-pin carrier 0.3\$.19 \$.15 \$.08 105347 16-pin carrier 0.329 .10 118210 40-pin carrier 0.6...... .10



141145

Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- · Slips onto socket before wrapping (plastic)
- · Can easily write location, part number or function



37129

Part No.	Prod. No.	Pins	Width (in)	Wt. (lbs.)	1-9	10-99	100-499
				.001\$			
37145	14ID	14	0.3	.001	.29	.19	.17
37356	16ID	16	0.3	.001	.29	.19	.17
38105	18ID	18	0.3	.001	.45	.35	.29
38586	20ID	20	0.3	.001	.45	.35	.29
39327	24ID	24	0.6	.001	.49	.39	.35
40299	28ID	28	0.6	.001	.49	.39	.35
41101	40ID	40	0.6	.001	.65	.55	.45

DIP Header Plugs

- Gold-plated leads (*134922 is tin plated) · Header plugs:
- keyed corner to indicate pin 1 · U-shaped pin termination for
- easy component attachment Lead lgth: .188"
 Wt.: .002 lbs.
- · 0.1" spacing between leads

DIP Header Plugs

Part No.	Product No.	Width (in.)	Pins	1-9	10-99	100-499
104336	8HP	0.3	88	\$.59	\$.49	\$.39
134922	14THP*	0.3	14	49	.39	.25
37129	14HP★	0.3	14		.65	.55
37330	16HP★	0.3	16	85	.75	.65
38578	20HP	0.3	20	.99	.85	.75

PLCC Sockets

- Solder tail allows through-hole board patterns in .100" grid
- · Accepts JEDEC type "A" plastic leaded chip (0.50" centers)
- Lead lgth.: .125"
 Body ht.: .375" Part No. Product No. Pins Wt. (lbs.) 1-9



PGA Socket

- · Contact plating: gold
- · Tin plated leads
- · Contact current: 3A
- · Contact resistance: less than 5mO. . Weight: 01 lbs

Part No.	Description	1-9	10-49	50-99	100
43457	68-pin socket\$1.	25	\$.99	\$.75	\$.49

Plastic IC Storage Tubes

and Rubber Rail Stops 29516: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. Length: 23.75" 29524: Wide tube (rail) fits 24, 28, 32, 40 and

48-pin integrated circuits. Length: 20" 29583: Rubber stops used to plug plastic rail ends







105347

Documentation available at (tp. jameco.com

We carry major manufacturers - call for pricing on quantities over 500.

4-40 Mounting Screw Hardware for D-Subminiature Connectors







 Weigh 	t: .01 lbs.				
Part No.	Product No.	Description	1-9	10-99	100-499
16547	D20418-2*	.5" jack screw (2), washer (2),			
			45	\$.35	\$.25
102816	D14556-2	.62" jack screw (2)	49	.39	.32
108986	D14557-2	.75" jack screw (2)	45	.35	.25
102795	D14552-2*	.238" hex nut (2)	49	.39	.32
102808	D14553-2	.384" screw (2), retainer (2)	45	.35	.25
108741	A895	.53" jack screw (2), washer (4),	nut	(2).	
		.34" screw (2), retainer (2)		.49	.32
	-	B → C ► ←	D	-	
1					

	125014	.32 1.1	.33 .47	.157	.08	
Part No.	Product No.	Description		1.	0 10.00	100-499
I all No.	r rounct No.	negerihmon			כפיטו כי	100-499
125014	TS1	1.9" thumb	screw	\$.3	9 \$.29	\$.19

Includes:		, washers (2), iners (2)		00	
Part No.	Product No.	Description	1-9	10-99	100-499
117680	488KIT4	Burndy hardware	\$.45	\$.35	\$.25

D-Subminiature Connector Hoods





25620 Metalized

For use with D-sub solder cup & housing style connectors

15085

· Hardware included · Weight: 0.2 lbs. D Series: plastic hood with strain relief (gray) MD Series: metal coated plastic hood with strain relief DB25MH: die-cast metal DB25 hood with strain relief

Part No.	Product No.	Туре	1-9	10-99	100-499
15721	DE9H★	9-pin, plastic\$.35	\$.25	\$.19
25620	MDE9H	9-pin, metalized	.49	.39	.29
15018	DA15H★	15-pin, plastic	.39	.29	.25
25566	MDA15H	15-pin, metalized	.49	.39	.29
15085	DB25H★	25-pin, plastic	.39	.29	.22
25603	MDB25H	25-pin, metalized	.55	.45	.32
15106	DB25MH	25-pin, metal cast1	.25	.99	.39
15456	DC37H★	37-pin, plastic	.59	.49	.39
15659	DD50H	50-pin, plastic	C	oseout	.25
			_		

25-Pin Dual Connector **Plastic Hood**

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects. Connectors not includ-



ed. Hardware included. . Weight: .04 lbs

Part No. Product No. Type 1-9 10-99 100-499 **34091** TT25 25-pin, plastic dual \$.85 \$.65 \$.55

D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding Operating temperature: -55°C to +105°C
- Insulation material: PBT, UL rated 94V-0
 Insulation resistance: minimum 1000MΩ at 500VDC
- · Contact material: phosphor bronze (gold plating over nickel)
- Current rating: 1A to 5A
 Dielectric withstanding voltage: 1000V (one minute)

D-Subminiature Right Angle.

PC Mount Connectors Shell is available in low-cost

plastic, or in metal for shielding applications. Tables below indicate shell type.

0.318

71706 DC37P318

78182 DC37S318



		0.318	8" Set	Back (Short	Style)	
Part No.	Product No.	<u>Contacts</u>	Gender	Shell	1-9	10-99	100-499
104942	DE9P318	9	M	metal\$.49	\$.39	\$.32
104951	DE9S318	9	F	metal	.55	.45	.35
71124	DA15P318	15	M	metal	.69	.55	.45
77956	DA15S318	15	F	metal	.75	.59	.35
71466	DA15S318HI	15	F	metal*	.75	.59	.25
15149	DB25P318	25	M	metal	.75	.59	.49
15181	DB25S318	25	F	metal	.79	.65	.55

metal 1.39

metal 1.49

*High Density

1.19

1.25

.99

0.450" Set Back (Medium Style) Part No. Product No. Contacts Gender Shell 1-9 10-99 100-499 130534 PDBN25SAA 25 F plastic .\$.25 \$.15

37 M

37

		0.590	o" Se	t Back	(Long	Style)	
Part No.	Product No. (1-9	10-99	100-499
104969	DE9P590	9	M	metal	.\$.69	\$.55	\$.45
15763	DE9P590PL	9	M	plastic.	29	.19	.08
104977	DE9S590	9 -	F	metal		.65	.39
15801	DE9S590PL	9	F	plastic	Cl	oseout	.10
104985	DA15P590	15	M	metal	Cl	oseout	.10
104993	DA15S590	15	F	metal	.1.19	.99	.75
105005	DB25P590	25	M	metal	99	.79	.39
105013	DB25S590	25	F	metal	.1.39	1.19	.99
105030	DB25S590P	L 25	F	plastic	29	.19	08

D-Subminiature IDC Ribbon Cable Connectors

Specifications:

· Electrical rating: 1 amp

- Temp range: -55°C to +120°C
- · Insulation mat: glass filled polyester
- · Contact material: phosphor bronze · Weight: .05 lbs.
- P/N 109217 & 109225 require flat cable w/ .0625" centers
- Features: Terminates with standard D type connectors

Part No.	Product No.				1-9	10-99	100-499
109225	MDE9P	9	M	metal	.\$.85	\$.69	\$.59
12503	CDE9P★	9	M	plastic	.1.09	.95	.85
109217	MDE9S	9	F	metal	85	.69	.35
12520	CDE9S★	9	F	plastic	.1.09	.95	.85
117381	MDA15P	15	M	metal	.1.19	.99	.89
12298	CDA15P★	15	M	plastic	.1.39	1.19	.99
116011	MDA15S	15	F	metal	.1.19	.99	.89
12319	CDA15S★	15	F	plastic	.1.39	1.19	.99
115983	MDB25P	25	M	metal	.1.39	1.19	.99
12335	CDB25P★	25	M	plastic	.1.39	1.19	.99
115975	MDB25S	25	F	metal	.1.39	1.19	.99
12431	CDB25S★	25	F	plastic	.1.39	1.19	.99
115991	MDC37P	37	M	metal	.1.95	1.75	1.55
12466	CDC37P★	37	M	plastic	.2.39	1.99	1.75
116003	MDC37S	37	F	metal	.2.15	1.89	1.69
12482	CDC37S★	37	F	plastic	.2.39	1.99	1.75

D-Subminiature Solder Cup Connectors

 Compatible with 24 AWG communications cable (pg 51)

15114 Back

Compatible with 22 AWG solid cable (pg 51) • Weight: .04 lbs.

Part No.	Product No.	Contacts	Gender	Shell 1-9	10-99	100-499
15747	DE9P*	9	M	metal\$.39	\$.29	\$.22
15771	DE9S★	9	F	metal45	.35	.25
15077	DB15HDP	15	M	metal*69	.55	.45
15034	DA15P★	15	M	metal45	.35	.25
15051	DA15S*	15	F	metal55	.45	.35
15114	DB25P★	25	M	metal55	.45	.35
15157	DB25S★	25	F	metal59	.49	.39
15472	DC37P★	37	M	metal89	.75	.65
15499	DC37S★	37	F	metal99	.79	.69
15675	DD50P	50	M	metal1.39	1.19	.85
15691	DD50S	50	F	metal1.49	1.25	.75
				*High Density		

D-Subminiature Straight. PC Mount Connectors

· Insulator material:

two-piece nylon Current rating: 5 amps

Non-removable contacts

15122 Back

Contact material: copper alloy with gold over nickel contact plate . Voltage rating: 1250VAC rms at sea level • Operating temperature: -65°F to +250°F

· Weight: .03 lbs.

Part No.	Product No.	Contacts	Gender	Shell	1-9	10-99	100-499
111691	DE9PPCB	9	M	metal.	\$.45	\$.35	\$.25
15780	DE9SPCB	9	F	metal.	49	.39	.29
15122	DB25PPCB	25	M	metal.	55	.45	.25
15165	DB25SPCB	25	F	metal.	69	.55	.45

D-Subminiature Wire Wrap

2 Level Connector

Non-removable contacts

· Contact current rating:



 Materials: shells – steel cadmium with yellow chromate: glass filled polyester

Operating temperature: -65°F to 250°F

Voltage rating: 1250VAC rms at sea level

· 2 level wrap pins · Weight: .03 lbs.

Part No. Product No. Contacts Gender Shell 1-9 10-99 100-499 109452 DB25SWW 25 F metal \$3.49 \$2.95 \$1.95

IDC Centronics Connectors

· Contact material: phosphor bronze, gold plated . Plastic

· Current rating: 1 amp

• Use 73251 IDC crimping tool (below) 13848

• Temp. rating: -55°C to +105°C • Weight: .04 lbs. 1-9 10-99

Part No. Product No. Contacts Type Male.....\$1.95 \$1.49 \$1.25 13848 CEN36M 13821 CEN36F Female 2.15 1.69 1.35

IDC Crimping Tool Insulation Displacement Connector

· Crimp insulation displacement connectors

· Crimping distance: 27.5mm to 6mm



(with attachment) Cushioned red handles
 Size: 9.2"L x 3.0"W

• Use for IDC socket connectors (pg 44)

Part No. Description 73251★ IDC crimp tool......\$14.95 \$13.49



Modular Telephone/Network Connectors/Adapters and Accessories

See page 88 for punch-down tool!

Make the modular connection and save

RS232 cables and connectors are bulky, slow to assemble, heavy, and worst of all, not always interchangeable. Modular cable is thinner, lighter and more flexible than RS232 cables. Modular cables are also cheaper than standard RS232 cabling, and easier to route, which is why modular connectors are fast becoming the industry standard.

Surface Mount Wall Jacks and Plate

· Weight: .01 lbs.

P = Number of positions C = Number of contacts W/E = Western Electric type no. All items beige in color

Part No.	Description	W/E	Fig.	1-9	10-99	100+
72311	6P6C & 8P8C double wall jack plate	_	1	\$1.95	\$1.65	\$1.35
103464	6P4C adhesive jack RJ11 (SMT)	625A-4	2	1.39	1.19	.75
71984	6P6C adhesive jack RJ11 (SMT)	625BS-6	2	1.45	1.25	.79
71651	8P8C adhesive jack RJ45 (SMT)	635	2	1.65	1.35	1.09







H: 0.8'

72207

Couplers and Adapters Weight: .02 lbs.

Style 1: Reverse wiring -_ Telephone systems Style 2: Straight wiring – Networking/printer sharing Fig. 1-9 10-99 100+ 71757 6P6C modular coupler, Style 1 3 **\$.85 \$.65 \$.49** 135087 6P6C modular coupler, Style 2 3 .95 .75 .49 3 1.25 1.09 .85 118501 8P8C modular coupler, Style 1 135079 8P8C modular coupler, Style 2 3 1.35 1.15 .89

72207 6P4C male "T" adapter. Provides two jacks from one line. Male modular plug (6P4C), two female modular receptacles (6P4C), Style 1 4 1.25 1.09 .65

6P4C female "T" adapter. Provides two jacks from one cable. Female jack (6P4C), two female modular receptacles (6P4C), Style 1 4 1.25 1.09 .85

Modular Plugs

- · Color: clear · Gold-plated contacts
- For stranded telephone cable
 Weight: .01 lbs.
- P = Number of positions C = Number of contacts W/E = Western Electric type number













Part No.	Description W/E		1-9	10-99	100	1000
103491	4P4C (handset) 616		\$.19	\$.15	\$.12	\$.09
79290	6P4C (RJ11)	623	.16	.12	.10	.08
79273	6P6C (RJ11)	623	.19	.15	.12	.09
79281	8P8C (RJ45)	641	.35	.25	.19	.15
119343	8P8C (RJ45) unshielded					
	(for solid wire)		.35	.25	.19	.15
116610	8P8C (RJ45) shie	elded				
	(for stranded wire)	1.35	1.15	.99	.69
116601	8P8C (RJ45) shielded					
	(for solid wire)		1.49	1.29	.99	.89

71651 **Modular Jacks**

Fig.2

W: 2.0° H: 2.2

D: 0.9"

- PC mount
 Durability: 750 mating cycles
- · Voltage rating: 150 volts AC max.
- Contact current rating: 1.5 amp max. @ 25°C
- · Weight: .01 lbs.
- P = Number of positions
- C = Number of contacts

W/E = Western Electric type number

129701: Compatible with Hirose P/N TM5RJ2-66



115128	115836 129701	124038		115844	
Part No.	Description	W/E	1-9	10-99	100+
115128	4P4C jack (handset)	-	\$.79	\$.59	\$.39
105945	6P4C jack (RJ11)	623	.79	.59	.29
115836	6P6C jack (RJ11)	_	.89	.69	.49
129701	6P6C jack (RJ11) TM5RJ2-66	-	.39	.29	.15
124038	6P6C jack (RJ11) 6" leads		.95	.75	.49
115844	8P8C jack (RJ45)	641	.85	.65	.35

Plastic Modular Crimping Tool

 Crimps 4P, 6P and 8P plugs (4P2C, 4P4C, 6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)

Part No. Description



- Includes cable stripper and wire cutter
- Size: 8.0"L
 Weight: 0.5 lbs.

Part No.	Description	1-9	10-24
116097	RJ11 crimping tool	\$14.95	\$13.49

Metal Modular Crimping Tools

- Cable stripper and wire cutter
- Size: 8.0"L Weight: 1.8 lbs. • 73091: Crimps 4P and 6P
- plugs (4P2C, 4P4C, 6P2C, 6P4C, 6P6C, RJ11) 114526: Crimps 6P and 8P plugs

(6P2C, 6P4C, 6P6C, RJ11, 8P2C Par

P4C, 8F	P6C, 8P8C)	mare crimpi	ng tours:
rt No.	Description	1-4	5-9
091	RJ11(4P4C)/RJ11(6P6C)	\$26.95	\$22.95
4526	RJ11(6P6C)/RJ45(8P8C)	29.95	26.95

Connectors and Accessories

D-Subminiature Housing Crimp Type Connectors and Pins

- · Connectors: metal shell: removable crimp male/female pin
- · Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: red/white plastic body; exchangeable tips
- Use 99442 (pg 86) to crimp male and female pins (43377, 43369)
- · Weight: .01 lbs.



38771 19094

Part No.	Product No.	Description	1-9	10-99	100-499
73189	205204M	DE9 male housing	\$.45	\$.35	\$.29
73197	205203F	DE9 female housing	.45	.35	.29
38789	205208M	DB25 male housing	.65	.49	.39
38771	205207F	DB25 female housing	.65	.49	.39
43377	66506	Male crimp pins	.09	.06	.04
43369	66504	Female crimp pins	.09	.06	.04
19094	ITS25	Insertion/extraction			
		tool for above nine	3 95	2 95	1 05

50-pin Half Pitch IDC SCSI-II

Connectors



pg 51) and create your own cable. · Weight: .02 lbs.

139352: HDB50P 50-pin high density D-sub male 139361: HDB50S 50-pin high density D-sub female

Part No.	Description	1-9	10-99	100+
139352	50-pin male SCSI-II	\$3.95	\$3.49	\$2.49
139361	50-pin female SCSI	4.49		2.95

68-pin Half Pitch **SCSI-III Connectors**

Crimp two ribbon cables (P/N 37840, pg 51) and create your

own assembled SCSI-III 68-pin cable.

· Weight: .03 lbs.

139061: HDB68P 68-pin high density D-sub male 139070: HDB68S 68-pin high density D-sub female

Part No.	Description	1-9	10-99	100÷
139061	68-pin male SCSI-III	\$4.49	\$3.95	\$2.95
139070	68-pin female SCSI-III	4.95	4.49	3.95

Centronics Parallel Interface Connectors

Metal Body and Shell, **Solder Type Contacts**

730



114526

Compatible with industry standard • Weight: .01 lbs.
 Solder eyelets accept 24 AWG wire (pg 51)
 Male Cable Plugs

 Complete with cable boot, shell and hardware
 Female Cable Receptacle
 Can be used as panel mount Complete with spring latches and cable boot

Part No. Product No. Description **42382** 57-30360 36-contact male \$1.65 \$1.35

42403 57-60360 36-contact female 1.75 1.49 **PCB Right Angle Centronics**







 Solder-type contacts Space between rows: 0.59" PC mount Space between pins: 0.1" . Weight: 0.06 lbs

art No.	Description	1-9	10-99	100-
2151	36-contact female	\$1.75	\$1.49	\$1.25
2080	50-contact female	1.95	1.65	1.45



\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less



Decumentation available at the jamece com

Also available at your local JIM-PAK retailer - see page 128

We carry major manufacturers - call for pricing on quantities over 1000.

BNC/TNC/UHF Coax Connectors

Application: ThinNet/Ethernet, video, cellular phone, antennas

· Weight: .06 lbs.

Part No.	Fig.	Description 1-9	10-99	100-499	500+
71458	1	BNC male terminator (50Ω)	\$1.29	\$.89	\$.75
71790	1	BNC male terminator (75Ω) 1.75	1.29	.89	.75
112002	2	BNC male terminator with chain (50Ω) 2.25	1.75	1.49	1.15
135618	3	BNC male with pin and ferrule (RG6)85	.69	.49	.45
71482	3	BNC male with pin and ferrule (RG58) 1.09	.89	.69	.59
71271	3	BNC male with pin and ferrule (RG59/62) .99	.79	.65	.55
112109	3	BNC male with pin and ferrule (RG174)1.49	1.15	.79	.69
119394	4	BNC male clamp-on (RG59/62)1.25	.99	.75	.59
108994	. 5	BNC male twist-on (RG58)1.09	.89	.69	.59
71781	5	BNC male twist-on (RG59/62)1.25	.99	.75	.65
116433	6	BNC female twist-on (RG58)		loseout	.10
71589	7	BNC female panel mount (UG-1094A)1.25	.99	.75	.59
71909	8	BNC female/female coupler (UG-914)85	.69	.59	.49
127343	9	BNC male/male coupler (UG-491B/U)1.85	1.45	.99	.89
111561	10	BNC female isolated bulkhead1.49	1.15	.79	.69
116425	11	TNC male twist-on (RG59/62)	ut [Closeout	.10
116450	12	THO Idillato twist off (Hado)	I	loseout	.10
116409	13	TNC female to female chassis mount.		loseout	.15
127351	14	BNC M-F right angle (DG-306B/0)2.25	1.75	1.49	1.35
		DNO Com T Adams - Com - I			



BNC Coax T Adapter Connectors

Application: General purpose coax T adapter; ThinNet/Ethernet LAN adapter

- · Single BNC male (twist-on plug) to double BNC female
- Color: silver
 Weight: .08 lbs.

Part No.	Description	1-9	10-49	50-99	100+
72629	Female to female/female T adapter\$2	2.49	\$1.95	\$1.65	\$1.35
118594	Male to female/female T adapter	2.49	1.95	1.65	1.35
100589	Male to female/female T adapter (90°)	1.49	3.95	3.49	3.15
100597	Male to female/female T adapter (180°)	1.49	3.95	3.49	3.15
117461	Male to female/female F adapter (90°)	1.49	3.95	3.49	3.15



Figure 13



Figure 12

Figure 11



Figure 14

BNC & RCA Adapter Connectors







114788 Application: • Convert existing cabling systems to more readily available parts for expansion, replacement or upgrade • Weight: .02 lbs.

Part No. Description 1-9 10-49 50-99 114770 BNC F to "F" conn. M..\$1.95 \$1.49 \$1.25 \$.99 114788 RCA F to BNC M......1.25 .99 .75 114753 RCA M to BNC F......1.25 .75 .65

BNC Coax Network Balun

Ring Solderless Terminals (Insulated)

Insulation

thickness: .030'

Funnel ramp



Temperature to 105°C • Weight: .002 lbs.

Use with Jameco crimping tool 72995 (below)

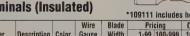
Insulated Solderless Terminals

Part		Wire Gauge	Stud	Pricing		OEM
Number	Color	AWG	Size	1-99	100-999	1000+
103683	Red	22-16	#6	\$.08	\$.05	\$.035
			_			

Spade Solderiess Terminals (Insulated)

	/-		.,	L		
Part		Wire Gauge	Stud	Pri	cing	OEM
Number	Color	AWG	Size	1-99	100-999	1000+
103587	Red	22-16	#6	\$.08	\$.05	\$.035
103595	Blue	16-14	#8	.08	.05	.035

Disconnect Solderless **Terminals (Insulated)**



Part			Wire	Blade	Pri	cing	DEM
Number	Description	Color	Gauge	Width	1-99	100-999	1000+
103561	Female	Red	22-16	.11		Closeout	\$.04
106921	Female	Red	22-16	.187	.10	.06	.04
103667	Female	Red	22-16	.25	.10	.06	.04
109111*	Female	Red	22-16	.25	.11	.07	.05
Terminal Wire Crimping Tool							
16		I AA	ire t	, [] []	JIIIY	IUU	

Twinaxial Connectors For IBM

100 Ω termination • Wt.: 0.1 lbs.

· Converts BNC coaxial cable to twisted-pair wires with either a modular (RJ11) jack or 2 screw terminals

· Weight: 0.1 lbs.

Part No. Description

Application:

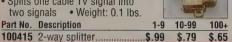
72637

Part No. Description 72645 Male solder type conn. \$3.95 \$3.25 \$2.75

BNC coax network balun \$5.49 \$4.95

Cable TV Splitter

 Effective frequency range: 5-900MHz Splits one cable TV signal into



Crimps solderless terminals: 22-18 AWG red, 16-14 AWG blue

72995 JE303

and 12-10 AWG yellow Size: 9.0"L x 2.0"W • Weight: 0.8 lbs Part No. Product No. Description

171 Pc. Solderless Terminal Kit 170 Terminals

· Clear, hinged plastic box

and Connectors! Box size: 8.3"L x 4.3"W x 1.3"H

Use crimping tool P/N 72995 (left below)

Weight: 0.6 lbs.

· Contains 18 different types of terminals

and connectors (170 total pieces) as follows:

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male discon.	22-16	1/4"	10	Ring term.	16-14	#10
10	Male discon.	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. discon.	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. discon.	16-14	1/4"	10	Spade term.	22-16	#6
10	Ring term.	22-16	#6	10	Spade term.	22-16	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	22-16	#10	10	Butt connec.	22-16	-
15	Ring term.	16-14	#6	10	Butt connec.	16-14	-
10	Ring term.	16-14	#8	5	Butt connec.	12-10	-

Part No. Product No. Description 10989 A18K Terminal kit\$9.95 \$8.95

PCB Mount SMA Connectors

Application: cellular phone, data

communication. instrumentation, video

 Blunt-post terminal

Four legs (leads)

Gold plated





NEW

Part No. Description 145373 Right angle female (jack) \$6.95 \$6.35 \$5.49 145381 Straight female (jack)......5.95 5.49 4.95



Order Toll Free 1-800-831-4242

Crimping tool \$19.95 \$17.95

BBS 650-637-9025

1-9

10-24 25-49

Coaxial Cable, Cable Tester and Accessories

We carry major manufacturers - call for large OEM pricing.

Assembled BNC Coax Cables

· Pre-assembled with coax connectors

 Select the correct length for your specific application



RG58/U 50 Ω Cables

• For Ethernet networks, oscilloscopes • Weight: 2.2 lbs.

Part No.	Product No.	Cable	Length	1-9	10-49	50+
102314	CRG58-1	RG58/U	1.5 ft\$2	2.49	\$2.25	\$1.95
11404*	CRG58-3	RG58/U	3 ft2	2.75	2.49	1.95
102331	CRG58-6	RG58/U	6 ft2	2.95	2.75	2.25
102349	CRG58-12	RG58/U	12 ft4	1.49	3.95	3.49
102357	CRG58-25	RG58/U	25 ft	5.95	5.25	4.25
102365	CRG58-50	RG58/U	50 ft7	7.95	6.95	5.95
102381	CRG58-100	RG58/U	100 ft. 10	0.95	9.95	8.95
	DOE	0/11/7	CO Oak	Jan		

RG59/U 75 Ω Cables

• For CATV and video patch cords • Weight: 0.4 lbs. Part No. Product No. Cable Length 1-9 10-24 25-49 CRG59-1 RG59/U 1.5 ft...\$2.49 \$2.25 \$1.95 2.49 RG59/U 6 ft.2.95 2.75 85542 CRG59-6 102373 CRG59-12 RG59/U 12 ft.4.25 3.75 3.25

RG62/U 93 Ω Cable

 For Arcnet and IBM 3270 networks
 Weight: 0.6 lbs Part No. Product No. Cable Length 102445 CRG62-20 RG62/U 20 ft. \$.35

RG174/U 50Ω Cables

 For Ethernet networks, oscilloscopes
 Weight: 0.1 lbs. Part No. Product No. Cable Length 1-9 10-24 25-49 111472 RG174U3 RG174/U 3 ft. ..\$2.75 \$2,49 \$1,95 111481 RG174U6 RG174/U 6 ft.3.49 2.95 2.25

Jameco F-type 75 Ω Cables

 Typical application: F connector (VCR)

· Low signal loss

· Made of high-quality 75 ohm RG59 cable

Strain relief

· Compatible with cable TV splitter (pg 49) • Weight: 0.2 lbs. 85585

Part No.	Product No.	Cable	Length	1-9	10-49	50+
85585	FS3FS	RG59/U	3 ft\$.99	\$.85	\$.75
85593	FS6FS	RG59/U	6 ft1	.49	1.25	.99
and the state of the state of	THE RESERVE TO A SECOND STREET	and the State of	100			

Coaxial Cables*

Insulation: PVC

· Wt.: .04 lbs. per foot

· See connectors - pg 49



RG58/U & RG58A/U Cable (50Ω)

20 AWG solid copper with copper braided shield (RG58/U)

. 20 AWG stranded with copper braided shield (RG58A/U)

· Nominal capacitance: 27pf/ft.

• Center conductor resistance: $10.4\Omega/1000$ ft. @ $77^{\circ}F$

Part No. Product No. Description 100 ft.* 1000 ft.* 102226 RG58/U For Ethernet networks. oscilloscopes......\$10.00 \$80.00 (solid wire)

116898 RG58A/U For Ethernet networks. (stranded) oscilloscopes15.00 110.00

RG59/U Cable (75Ω)

 22 AWG solid copper center conductor with copper braided shield • Nominal capacitance: 19pf/ft.

Center conductor resistance: 16.5Ω/1000 ft. @ 77°F

102218 RG59/U For CATV and video patch cords\$12.00 \$80.00

RG62A/U Cable (93Ω)

· 22 AWG solid copper center conductor with copper braided shield • Nominal capacitance: 13pf/ft.

Center conductor resistance: 16.5Ω/1000 ft. @ 77°F

104686 RG62A/U For Arcnet networks and IBM 3270 Closeout \$5.00/100 ft

RG174/U Cable (50 Ω)

- · 26 AWG stranded (7 x 34) with copper braided shield · Nominal capacitance: 30.8pf/ft.
- Center conductor resistance: 97Ω/1000 ft. @ 77°F

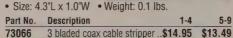
112037 RG174/U For Ethernet networks. oscilloscopes......\$12.00 \$90.00

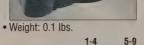
*Must be ordered in increments of 100' or 1000'

Jameco 3 Bladed Adjustable **Coaxial Cable Stripper**

- · Strips RG58, 59, and 62 cable (left)
- · Heavy duty black plastic construction
- · Replaceable blades

70560





Jameco Ratcheted BNC Crimping Tool

· Crimps RG58. RG59, RG62, RG174 and fiber optic

· All steel

construction

Size: 8.5"L x 2.5"W
 Weight: 1.1 lbs

Part No. Description Ratcheted BNC crimping tool \$21.49 \$19.95

Jameco Coaxial Cable Tester

- · Pre-test cables and reduce installation time with this handy tester
- · Mature system installation will start having intermittent cable problems due to normal wear
- Test cables for shorts and opens
- . Test BNC or TNC type cables
- · Zipper case included
- · Requires 9VDC battery (not included)

Size: 4.5"L x 2.5"W x 1.3"H
 Weight: 0.4 lbs.

Part No. Description

Jameco Modular Crimping Tool Set

- 8" metal modular crimping tool
- · Cuts, strips and crimps
- · Crimps 4P, 6P and 8P plugs
- · Includes: 90 modular plugs, 40 4P4C modular plugs (616), 30 6P6C modular plugs (623), 20 8P8C modular plugs (641)



blue hard plastic, 8.0 L x 10.5 W x 2.0 H

· Weight: 2.1 lbs.

Part No. Description

73496 Modular crimping tool set\$79.95 New Cable Tie

Nylon Cable Ties and Mounting Accessories

Assortment Ses Inside Back Cover

Nylon Cable Ties

Cable ties made from UL approved nylon 6/6

• Flamability rating: UL 94V-2			70906					
Part No.	Description	Tensil Strength	Dimensions	1-99	100	1000		
70560	Cable tie (clear)	18 lbs.	3.1"L x 0.1"W	\$.05	\$.025	\$.01		
126543	Cable tie (clear)	18 lbs.	4.0"L x 0.1"W		.025	.01		
139150	Cable tie (clear)	18 lbs.	8.0"L x 0.1"W		.04	.02		
139168	Cable tie (clear)	40 lbs.	5.5"L x 0.13"W		.04	.02		
70906	Cable tie (clear)	40 lbs.	5.8"L x 0.1"W	07	.04	.02		
139176	Cable tie (clear)	50 lbs.	4.8"L x 0.18"W		.03	.02		

Weather Resistance

resistance to ultra violet rays in outdoor use 104141 Tensil Strength Dimensions Part No. Description 1-99 10001 139125 Cable tie (black) 18 lbs. 3.0"L x 0.9"W \$.025 \$.015 104141 4.0"L x 0.1"W .025 Cable tie (black) 18 lbs. .05 .015 139133 Cable tie (black) 40 lbs. 5.5"L x 0.13"W .04 .025 104133 Cable tie (black) 40 lbs. 5.8"L x 0.1"W .07 .04 .025 139141 Cable tie (black) 50 lbs. 4.8"L x 0.18"W .02

Nylon Cable Tie Mounts and Cable Clamp

· Screw tab and cradle mount adhesive

 Used with nylon cable ties at left

70885









100 10001

.07

.12

.02

70594 Part No. Description

71407/71394/71386 70594 0.8"L x 0.4"W screw 4-way cable tie, used with 0.2"W max\$.13 \$.10

71407 0.9" square adhesive 4-way cable tie, used with 0.1"W max15 71394 1.1" square adhesive 4-way cable tie, used with 0.2"W max.... .19 .15 71386 1.1" square adhesive 2-way cable tie, used with 0.4"W max23 .19 134754 Cable clamp for 3/8" cable. .07 .04

Nylon Ties and ID Tabs

Constant of the second 70885 71061 135175 Part No. Description 100 1000 **Dimensions** 71061 ID tab (0.98×0.31) (clear) 4.0"L × 0.1"W\$.14 \$.09 \$.05 135175 Cable tie ID marker (nylon) 2.0"L x 0.8"W x .02"T09



\$1.39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less

Decumentation available at the jamees com-

AC power cord tie (clear)

Also available at your local JIM-PAK retailer - see page 128

.06

118130

We carry major manufacturers – call for large OEM pricing.

18/20/22 AWG Stranded Hookup Wire 🖘 😘

300 Volts: • 80°C • PVC insulation • Sold in 100' units

• CSA: TR-64 UL style: 1007 • Temperature range: -40°C to +80°C



Part No.	Product No.	Gauge (AWG)	Strands (No. X AWG)	Color We	ight (lbs.) 100 ft.
126084	223SBK/C	22	7x30	Black	0.4\$3.95
126033	223SR/C	22 %	7x30	Red	0.43.95
126076	223SW/C	22	7x30	White	0.43.95
125840	203SBK/C	20	10x30	Black	0.64.95
125794	203SR/C	20	10x30	Red	0.64.95
125831	203SW/C	20	10x30	White	0.6 4.95
125786	183SBK/C	18	16x30	Black	0.8 5.95
125735	183SR/C	18	16x30	Red	0.8 5.95
125751	183SW/C	18	16x30	White	0.8 5.95

22 AWG Solid Hook-up Wire 600 Volts: • 105°C • PVC insulation

Weight: 100' (0.3 lbs.); 1000' (3.8 lbs.)



Part No.	Product No.	Color	IUU II.	Part No.	Frounct No.	GUIUI	1000 11.
36767	122BE/C	Blue	\$3.95	36775	122BE/K	Blue	\$29.95
36791	122BK/C	Black	3.95	36804	122BK/K	Black	29.95
36821	122G/C	Green	3.95	36839	122G/K	Green	29.95
36855	122R/C	Red	3.95	36863	122R/K	Red	29.95
36880	122W/C	White	3.95	36898	122W/K	White	29.95
36919	122Y/C	Yellow	3.95	36927	122Y/K	Yellow	29.95

28 AWG Modular Telephone Cable

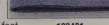
• Color coded • Flat modular cable • PVC jacket 103430 • Silverm • 7 x 43 stranded • Wt · 0.02 lbs per foot



Part No.	Product No.	Conductors	100 ft.	1000 ft.
103430	MTC4	4	\$3.30	\$30.00
103448	MTC6	6	8.00	50.00
103450	MTC8	8	11.00	70.00

28 AWG Gray Flat Ribbon Cable*

· Ideal for use with: insulation displacement DIP jumpers, card-edge connectors and socket connectors. See pages 45-47 • Single edge red stripe for pin 1 orientation • Weight: 0.08 lbs. per foot



 Insulation: Polyvinyl chloride (PVC)
 Voltage rating: 300V
 Center spacing: .05" • Temperature rating: -20°C to +80°C • Stranded copper wire • 28 AWG (7 x 36)

Part No.	Product No.	Conductors	25 ft.	100 ft.	500 ft.
135538	171-10	10	\$3.50	\$10.00	\$40.00
37671	171-16	16	4.50	12.50	57.00
37719	171-20	20	5.25	16.00	75.00
37760	171-25	25	8.00	20.00	92.00
37807	171-26	26	8.50	20.50	95.00
37840	171-34	34	10.50	27.00	127.00
37911	171-37	37	12.25	30.00	140.00
37920	171-40	40	12.75	32.00	153.00
37954	171-50	50	17.00	40.00	190.00
103481	171-60	60	18.75	54.00	230.00
100781	PS2- 44	44 (2mm cable for IBM PS/	2)	Closeout	.59/ft.

*Must be ordered in increments of 25', 100' or 500'

28 AWG Multicolor Flat Ribbon Cable*

· Ideal for use with: insulation displacement DIP jumpers, card-edge connectors, socket connectors and IDC connectors

Standard 10 color repeat sequence
 Center spacing: 0.05"

• Temperature rating: -20°C to +80°C • Voltage rating: 300V • Wt.: .07 lbs./ft. Insulation: Polyvinyl chloride (PVC)
 Stranded copper wire
 28 AWG (7 x 36)

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Part No.	Product No.	Conductors	25 ft.	100 ft.	500 ft.
112547	28RC10	10	\$5.00	\$17.50	\$75.00
105671	28RC16	16	800	24.00	110.00
105689	28RC20	PA 1411111111111111111111111111111111111	.10.00	30.00	135.00
105697	28RC25	25	.12.50	36.50	165.00
105700	28RC34	34	.17.00	51.00	225.00
105726	28RC40	40	.20.00	67.00	300.00
105718	28RC50	50	.25.00	73.00	330.00

*Must be ordered in increments of 25', 100' or 500'

24 AWG 300V 2 Conductor Stranded Power/Speaker Cable

• Temperature rating: 20°C to 60°C . Operating voltage: 300 • Stranded copper wire (7 x 32) • Black wire with white polarity stripe

Part No. Product No. Color Wt. (lbs.)/ft. 100 ft. Part No. Product No. Color Wt. (lbs.)/ft. 1000 ft. 100280 224BK/C Black 0.8......\$4.49 100298 224BK/K Black

24 AWG Twisted Pair Cable

300 Volts: • 80C° • PVC insulation

• Stranded tinned wire (7 x 32) • Reduced EMI

Use for hook up wire • Weight: 100' (0.5 lbs.); 1000' (4.7 lbs.)

100 ft. Part No. Product No. Color Part No. Product No. Color 105911 224GW/C Green/White\$4.49 | 105806 224GW/K Green/White ...\$23.95

Modular Data Network Cable 24 AWG UTP Category 5

(For assembled cables, see pg 120) 🤢 🖼

• 100MHz • Color: grav • 8C • 4 twisted pairs

 Insulation: polyethylene
 Nom. OD.: .189"
 Nom. impedance: 100Ω 118130: Uses modular plug P/N 79281 (pg 48)

118113: Uses modular plug P/N 119343 (pg 48)

Description Wt. (lbs.)/ft. 100 ft. Part No. Stranded cable, 24 AWG (7/32 stranded) 0.02 \$25.00 \$170.00 118130 Solid cable, 24 AWG 0.02 ...15.00 130.00 118113

24 AWG Multiconductor Shielded Computer Communication Cable*

· Stranded copper wire, multi-colored insulation

• Insulated with polyvinyl chloride (PVC)

• 24 AWG (7 x 32) • External color: gray

. Shielded 100% with aluminum mylar

• Separate drain wire • Voltage rating: 300V

Part No.	Product No.	Conductors	Diameter	Weight (lbs.)	25 ft.	100 ft.	1000 ft.
31860	SC4	4	0.20"	.02	\$4.75	\$14.00	\$110.00
31878	SC9	9	0.23"	.03	9.75	25.00	190.00
31843	SC15	15	0.28"	.05	13.75	35.00	250.00
31851	SC25	25	0.37"	.09	17.25	49.00	300.00

*Must be ordered in increments of 25', 100' or 1000'

30 AWG Kynar™ Wire Wrap Wire

Assorted color coded insulation
 Used for prototyping

Color coded Kynar[™] (Polyvindene Fluoride) insulation

• Silver plated copper (solid conductor) • UL 1423

• Temperature: -40°C to +125°C • See pg 43 for www sockets

• Wire wrap tools below and on pg 86 • Passes UL VW-1 flame test

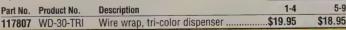
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Part No.	Color	Weight (lbs.)	100 ft.	Part No.	Color	Weight (lbs.)	1000 ft.
22541	Blue	0.1	\$3.49	22550	Blue	0.6	\$19.95
22576	Black	0.1	3.49	22584	Black	0.6	19.95
22630	Red	0.1	3.49	22648	Red	0.6	19.95
22664	White	0.1	3.49	22672	White	0.6	19.95
22605	Green	0.1	3.49	22613	Green	0.6	19.95
22699	Yellow	0.1	3.49	22701	Yellow	0.6	19.95

30 AWG Tri-Color Wire/Dispenser

Ouickly cuts, strips and dispenses wire from three separate spools.

See page 86 for Wire-Wrapping Tool Includes three 50' spools of 30 AWG wire

(blue, white and red) and push button cutter • Wt.: 0.2 lbs./ft.



14-22 AWG IDC Wire Connectors

Connects two to three wire ends or splice one line & one lead

Insulated snap cover for a secure splice

Insulates the connection
 Weight: .004 lbs.

Color coded for easy identification

Gauge (AWG) Part No. Color \$.06 \$.07 Blue 18-14..... 140724 .07 06 140716 Red



22541



105718

Sound Devices - Buzzers, Sensors and Microphone Cartridges

Piezo Audio Signal Device

- Single tone
- 3-28VDC @ 20mA max operation
- · Top mounting via mounting nut or base mounting via screw holes
- 4.5" color coded connector wires
- · Two 0.6" screws with washers and nuts
- 1.35" mounting hole spacing Size: 1.0"H x 1.1"Dia.

Part No. Description 1-9 10-99 Piezo audio signal device ... \$2.75 \$2.25 \$1.49

Audible Signal Devices

- · Single tone
- Turns on and off with low power transistor, SCR or IC
- Can be battery operated 6-28VDC
- · Solid-state no moving parts
- · Panel mounts in 1.25" round hole
- Black plastic case includes mounting nut • 80dB
- · Current: 15mA
- Frequency: 2900Hz ±300
- Size: 1.4"H x 1.7"Dia. · Color: black P/N 32601 single tone constant audio output pulsed
- · P/N 123537 dual tone constant audio output
- pulsed audio output (terminal selected)

Part NU.	Product No.	Output tone	1-9	10-33	100+	
32601	S3240*	Single	\$4.49	\$3.75	\$2.95	1
123537	D3240	Dual	3.95	3.25	1.95	-
		D.		D		-

Jameco Micro Mini Alarm Siren

- Operating range: 6-12VDC
- Sound output: 105dB
- 250mA current
- · White plastic housing
- 16.5" color coded connector wires, tinned
- Size: 2.8" dia. x 2.0" depth

Part No.	Product No.	Description	1-9	10-24
102488	SS20	Micro alarm siren	\$9.95	\$8.95

400Hz Mini-Buzzer

- · Operates on 9-15VDC
- · Output frequency: 400Hz
- Rated 12VDC @ 25mA
- Sound: 75dB Wire leads: 4.5"L
- Size: 1.3"L x 0.7"W x 0.6"H
- 1.1" mounting hole spacing
 Color: black

Part No.	Product	No. Description 1-	9 10-99	100+
140695	MB7	Mini-buzzer\$1.3	9 \$1.15	\$.89

800Hz Mini-Buzzer

- · Operates on 6-9VDC
- · Output frequency: 800Hz
- Draws only 30mA @ 9VDC
- · Sound: 80dB
- · Color: black
- Size: 1.3"L x 0.6"H 1.1" mounting hole spacing

Part No. Product No. Description 1-9 10-99 24871 MB6★ Mini-buzzer...\$1.39 \$1.15



• Frequency: 40kHz ±1.0kHz

136653 Transmit/Receive

Capacitance: 2000pf ±30%



Jameco 40kHz Ultrasonic Sensors

Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity $65dB/40 \pm 1.0$ kHz (0dB vs 1V µbar) R=3.9k Ω

· Lead length/spacing: 0.39

Case size: 0.47"H x 0.62" Dia.

139491 Transmit/Receive

Capacitance: 2000pf ±20%

• Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz (0dB+0.0002 µbar) / 10V SN/30cm/min. • Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB/40 ±1.0kHz (0dB vs 1V ubar) R=3.9kΩ Lead length/spacing: 0.28" Case size: 0.30"H x 0.43" Dia.

Part No. Product No. Description 136653 40TR16F Sensor set.. \$6.95 \$6.25 \$4.95 139491 40TR12B Sensor set....7.95 6.95 5.95

Electromechanical Buzzer

- Ideal for use in alarms and timers
- Sound output: 80dB

SONITRON Miniature Buzzer

- Sturdy metal case
- Operating range: 9VDC @ 220mA
- Fast-on terminals Size: 1.3"H x 2.0"Dia

Part No. Product No. Description 1-9 10-99 100+ **105822** CLB27 9V buzzer...\$.75

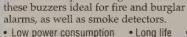
Piezo Buzzers

32601

These devices were developed with driver circuits so that they can easily be used by applying a DC voltage source. The clear and penetrating sound make

Part No. Method Voltage (DC) (kHz @ dB) Nature

5V @ 30mA



138712 2 pins 12V @ 7mA

2 pins



138712 High sound pressure level

.004 2.95

Size

(D" x H")

 $.53 \times 0.3$

.50 x 0.4



.002 \$2.25 \$1.95 \$1.49

2.49

Low power consumption yields high sound output from this compact buzzer. Use for: portable gas detectors, measuring, medical and alarm equipment, and more! · Small size allows direct circuit board connection

- . Mount by soldering or screws
- · Solvent resistant
- · No damage result from reverse voltage hookup
- Screw hole diameter: 34.5mm (1.4")

Part	Product	Dimens Case Dia.			Input Nom Max		Freq. Range	Pin Spacing	Net Wt.	Price		
Number	Number	(mm) (inch)	(mm) (inch)	(mW)		SPL (dB)	(Hz ±15%)		(lbs)	1-9	10-99	100+
137517	SM2B	30 1.2	10 0.4	.45	.154	84	3500	17.5	.03	\$.75	\$.59	\$.39

Single Tone Magnetic Buzzers (External Drive Required)

Piezo Transducers

Long life

Frequency Tone

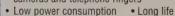
4.0 @ 80 Single

2.3 @ 85 | Single

External Drive (Sine and Square Wave)

Mounting Operating

- · External drive required
- · Sinwave (Vrms) or square wave (Vp-p)
- Applications: alarms, smoke detectors. home appliances, radio beepers, electronic games, keyboard signalers. cameras and telephone ringers

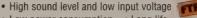


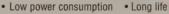




· Applied voltage: 1/2 duty, square wave

 Applications: counters, monitors, scanners. computer, peripheral equipment, also in fire and burglar alarms and smoke detectors







138739



49

75

10-99 \$.99 \$.69

1.25

1.49

.85

1.25

Part No.	Mounting Method	Max. Input Voltage				Size (D" x H")	Wt. (lbs)	1-9	10-99	100+	Part No.	Frequency (Hz @ dB)	Rated Voltage	Mounting Method	Size (D" x H")	Weight (lbs.)	1-
138771	2 wire	13Vrms	25	4kHz	85dB	1.18 x .19	.009	\$1.25	\$.99	\$.69	138721	2048 @ 80	1.5	2 PC pins	.46 x .32	.003	\$1.2
138763	2 PC	13Vrms	15	4kHz	80dB	0.87 x .27	.006	1.25	.99	.69	138739	2048 @ 80	5.0	2 PC pins	.46 x .35	.003	1.4
138755	2 PC	19Vp-p	12	4kHz	80dB	0.65 x .28	.004	1.25	.99	.69	106500	3200 @ 80	1.5	2 PC pins	.48 x .40	.005	1.7
138747	2 tahe	13\/n-n	30	2kHz	70dB	88W v 28D v 1 06H	006	1 30	1 15	80	11/606	3500 @ 80	1.5	5" lead	18 v 31	nna	R

Omnidirectional Electret Condenser Microphone Cartridges

Applications:

- Telephone and answering devices
 Built-in microphones for tape recorders
- Intercoms
 Omnidirectional
 Modems for computers
- Completed microphones for recording, testing, and monitoring
- Hearing aids
 Sonic controlled toys and sensors



116505

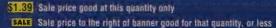


140986



	Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op.	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	1-9	10-99	100+
8 H	112352	Panasonic WM-34CX	-46 ±3dB	Low	20-12,000	12V	4.5V	0.8mA	-3dB @ 3V	>40dB	Solder pad	.30" × .83"	\$.69	\$.59	\$.49
ı	136573	Panasonic WM-60PC	-54 ±2dB	Low	20-12,000	1.5-12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.79	.69	.49
	116505	Panasonic WM-54PC★	-44 ±2dB	Low	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	.89	.75	.65
	137437	Panasonic WM-62A	-45 ±4dB	Low	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	Solder pad	.12" x .24"	1.95	1.75	1.15
Marchae	140986	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	1.5-12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Solder pad	.90" x .39"	1.49	1.25	.99







99.7% Sto

Jameco Round Ferrite Type Speakers

Designed for a wide range of audio electronics. For speaker wire, see page 51.

- · Pre-tinned speaker lugs · Large magnet
- Anodized metal surfaces
- · Braided copper voice coil leads
- Paper diaphragm (except P/N 122024: Myiar)





		- '							100003 11	OIII	10	,0003 B	aun
Part	Product	Dime Dia.	nsions Height	In		lmn	QDI.	Frequ. Range	Magnet Size (Dia.xTxH)	Net Wt.		Price	
Number	Number	(mm) (inch)	(mm) (inch)	(W)			(dB)			(lbs.)	1-9	10-49	50-99
122024	FE100	29 1.1	9.3 0.4	.1	.2	8	80	500 to 8000	16x5x1.7 0.6x0.2x0.07	.02	\$1.19	\$.95	\$.59
135589	FE200	50 2.0	17.8 0.7	.2	.4	8	83	420 to 5000	32x18x6 1.3x0.7x0.2	.08	1.19	.95	.59
10840	FE201	57 2.2	17.8 0.7	.2	.4	8	88	400 to 4500	32x18x6 1.3x0.7x0.2	.11	1.19	.95	.75
135714	FE202	66 2.6	19.5 0.8	.3	.5	8	88	340 to 4000	32x18x6 1.3x0.7x0.2	.13	1.35	1.09	.85
	_	_											

Jameco Round Alnico **Type Speakers**

- For computer case use
 Paper diaphragm
- · Wide frequency response
- · Large magnet





125772 front

									10077011		- 10	10110 1	UUN
Part	Product	Dime Dia.	ensions Heiaht		out	lmn	SDI	Frequ. Range	Magnet Size (Dia.xH)	Net Wt.		Price	
Number	Number	(mm) (inch)	(mm) (inch)	(W)				(Hz)		(lbs.)	1-9	10-49	50-99
135749	A0102	40 1.6	15.8 0.6	.1	.2	8	74	640 to 5000	13x10 0.5x0.4	.05	\$1.95	\$1.59	\$1.39
88410	A0200	50 2.0	19.0 0.8	.2	.4	8	87	430 to 4500	13x10 0.5x0.4	.09	1.95	1.59	1.19
135757	A0200C	50 2.0	19.0 0.8	.4	.7	8	86	540 to 4000	13x10 0.5x0.4	.06	1.75	1.49	.99
135765	A0201C	57 2.2	19.5 0.8	.3	.5	8	87	400 to 4000	13x10 0.5x0.4	.07	1.75	1.49	.99
135773	A0202C	66 2.6	21.5 0.9	.5	1	8	88	320 to 5000	13x10 0.5x0.4	.10	1.75	1.49	1.25
109794	A0303	92 3.6	26.3 1.0	.2	.4	8	90	500 to 8000	22x11 0.9x0.4	.15		Classout	.75

Flat Magnet Square Piezo Speakers

- · Excellent for alarms or other voice uses
- · Square frame
- Stainless steel diaphragm





SPEAKER DESIGNS

			nsions				an.	Frequency	Net		Price	
Part Number	Product Number	Dia. (mm) (inch)	Height (mm) (inch)	Nom (W)	(W)	lmp (Ω)	SPL (dB)	Range (Hz)	Wt. (Ibs)	1-9	10-49	50-99
34024	AZ30S	36 1.4	5 0.2	.4	.8	8	70	1300-8000	.01	\$1.95	\$1.59	\$1.39
76030	AZ40S	47 1.9	5 0.2	.4	.8	8	70	600-6000	.02	1.95	1.59	.99

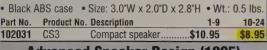
76030

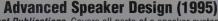
front & hack

Jameco Communications Speaker w/ Magnetic Mount

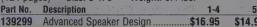
- Maximum input: 8 watts
 Frequency range: 200 18,000Hz
- Impedance: 8Ω
 Includes 3' cord with 3.5mm male plug

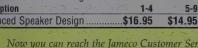
Part No. Product No. Description 102031 Compact speaker.....\$10.95



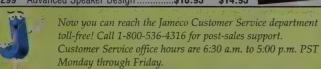


Prompt Publications Covers all parts of a speaker system: subwoofers, crossovers, driver parameters, computer-aided speaker design, and more. Complete easy-to-understand plans for constructing 7 speaker systems. Quality graphics and dimension diagrams. For the hobbyist and technician. (124 pages) • Size: 6" x 9" • Weight: 0.4 lbs.





FAX Toll Free 1-800-237-6948



Jameco Square Ferrite Type Speakers

Designed for a wide range of audio electronics. For speaker wire, see pg 51.

- Pre-tinned speaker lugs
 Large magnet
- Anodized metal surfaces
- · Braided copper voice coil leads

•	Paper	diaphrag	m • Wide	frequenc	y re	spo	nse
_			Dimensions	Input			Frequ





Frequ. Magnet Size Net Price

Number	Number	(mm) (inch)	(mm) (inch)		(W)		(dB)	(Hz)	(mm/inch)	(lbs)	1-9	10-49	50-99
135693	FEB200	50 2.0	17 0.7	.2	.4	8	82	400 to 5000	32x18x6 1.3x0.7x0.2	.12	\$1.19	\$.95	\$.75
135685	FEB202	66 2.6	20 0.8	.3	.5	8	85	330 to 4000	32x18x6 1.3x0.7x0.2	.13	1.65	1.35	1.15
31958	FEB216	66 2.6	20 0.8	.2	.4	16	85	330 to 8000	32x18x6 1.3x0.7x0.2	.14	1.75	1.49	1.29
99995	FEB204	66 2.6	23 0.9	3	4	4	95	300 to 14000	45x22x8 1.8x0.9x0.3	.29	1.95	1.59	1.39
								pro					

Jameco Square Alnico Type Speakers

- For computer case use
- Pretined solder lugs front & back
- · Anodized · Paper diaphragm





Part	Product		nsions Height		out	lmn	e Di		Magnet Size (Dia.xH)	Net Wt.		Price	
Number	Number	(mm) (inch)	(mm) (inch)	(W)					(mm/inch)	(lbs)	1-9	10-49	50-99
111587	B0102	42 1.7	16 0.6	.1	.2	8	80	650 to 8000	13x10 0.5x0.4	.05	\$1.95	\$1.59	\$1.39
135781	B0200	50 2.0	19 0.8	.2	.4	8	80	430 to 4000	13x10 0.5x0.4	.09	1.95	1.59	1.39
135790	B0202	66 2.6	21 0.8	.3	.5	8	84	350 to 4000	13x10 0.5x0.4	.13	2.09	1.75	1.49
135802	B0300	77 3.0	23 0.9	.5	1	8	82	260 to 8000	13x10 0.5x0.4	.12	2.25	1.89	1.59

Jameco Oval Alnico Type Speakers

- For computer case use
- Imp: 8Ω
 Paper diaphragm
- · For rectangular openings





		Dimen			out			Magnet Size			Price	
Part Number	Product Number	Diameter (mm) (inch)	Height (mm) (inch)	Nom (W)			Range (Hz)	(Dia.xH) (mm/inch)	Wt. (lbs)	1-9		50-99
135811	A1527C02	41x72 1.6x2.8	30 1.2	2	5	82	450 to 20000	13x12 0.5x0.5	.13	\$3.49	\$2.95	\$1.95
135829	D0133	48x72 1.9x2.8	25.2 1.0	.5	1	84	450 to 5000	13x10 0.5x0.4	.11	3.49	2.95	2.25

Samarium Cobalt Metal Frame Low Profile Speakers

- Round frame
- Anodized
 Ultra thin
- Paper diaphragm Solder tabs



											1		
Part	Product		nsions Height		out	lmn	CDI		Magnet Size (Dia.xH)	Net Wt.		Price	
Number	Number	(mm) (inch)	(mm) (inch)		(W)				(mm/inch)	(lbs)	1-9	10-49	50-99
135634	MSC298	40 1.6	6.9 0.3	.3	.5	8	80	430 to 6000	12.5x1.5 0.5x0.6	.02	\$3.49	\$2.95	\$2.65
135626	MSC299	50 2.0	8.5 0.3	.3	.5	8	85	550 to 5000	12.5x1.5 0.5x0.6	.03	3.49	2.95	2.25
135642	MSC300	57 2.2	11.5 0.5	.3	.5	8	86	480 to 5000	12.5x1.5 0.5x0.6	.04	3.49	2.95	2.65

Jameco P.C. **Mountable Speakers**

- Frame: P/N 135722: round: P/N 135731: square
- Imp: 8Ω
 Mylar diaphragm
 Solder leads

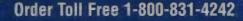




135731

		Dimens			out		Frequ.	Pin	Net		Price	
Part Number	Product Number	Diameter (mm) (inch)	Height (mm) (inch)	Nom (W)	Max (W)	SPL (dB)	Range (Hz)	Spacing (mm)	Wt. (Ibs)	1-9	10-49	50-99
135722	PCM41S	29.85 1.2	12.7 0.5	.150	.200	82	700 to 5000	15.0	.02	\$1.75	\$1.49	\$1.29
135731	PCM35SO	35x32 1.4x1.3	5 0.2	.200	.300	80	450 to 3500	4.4	.01	3.49	2.95	2.65







12VDC Continuous Tubular Push Solenoid NEW

- Voltage: 12VDC
- Tubular push type
- · Coil resistance: 36Ω (±10%)
- · Nominal voltage & current: 12VDC @ 333mA
- Power consumption: 4W
 Holding force: 0.63 lbs.

Size: 2.1"L x 0.4"Dia.
 Weight: 0.05 lbs.

Part No. Description 1-9 10-24 25-49 145306 Continuous solenoid......\$9.95 \$8.95 \$7.95

GUARDIAN 12VDC Intermittent Pull Solenoid

- · Open case style · Pull type
- · Coil turns: 1096
- Typical coil resistance: 11.9Ω
- · Holding force: 5 lbs.
- Power: 13.5W at maximum input power
- . 0.188" quick connect terminals
- · Plunger pull in time: 70ms, fall out: 50ms
- Casing size: 1.2"L x 1.2"W Weight: 0.2 lbs.

Part No. Description 131991 Intermittent solenoid

12VDC Intermittent **Pull Solenoids**

· Pull type · Open case style

• Casing size: 1.1"L x 0.8"W • 6" leads

· Specifications: 135950 136071 Coil resistance 11.5Ω 14.8Ω Min. quiet pull force 22 oz./0.1" 16 oz./0.1" 0.1 Weight (lbs.)

Part No. Description 10-24 25-49 135950 12VDC solenoid\$2.95 \$2.49 \$2.25 136071 12VDC solenoid



12VDC Continuous Tubular **Push/Pull Solenoid**

Voltage: 12VDC

· Tubular push/pull type

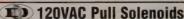
 Coil resistance: 36Ω (±10%) Nominal voltage and current 12VDC @ 135mA

Power consumption: 4W

Holding force: 0.63 lbs.

• Size: 1.1"L x 0.5"Dia. • Weight: 0.05 lbs.

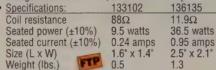
Part No. Description 1-9 10-24 25-49 145314 Continuous solenoid\$12.95\$11.49 \$9.95



133102

P/N 133102 - Continuous. P/N 136135 - Intermittent

- 120VAC Pull type
- 60Hz operation · Coil Class A (105°C)
- · Plunger: laminated steel, zinc dichromate plated



Part No. Description 1-9 10-24 25-49 133102 Continuous solenoid\$4.95 \$4.49 \$3.49 136135 Intermittent solenoid



12VDC Tubular Pull Solenoid

- · Voltage: 12VDC
- Pull type
- Coil resistance: 36Ω Nominal current: 333mA
- Power consumption: 4W
- · Holding force: 0.6 lbs.

How it works... Pressing the switch lets

power flow from the batteries through the Muscle Wire, heating it and causing it to

weight. When power is removed, the Muscle

contract and raise the lever and lift the

Wire cools and relaxes,

and the weight helps it

return to its starting

position

142463 12VDC solenoid

• Size: 1.6"L x 1.4"Dia. • Weight: 0.04 lbs. 1-9 10-24 25-49 Part No. Description \$5.49 \$4.95 \$4.49

Magnetec 12VDC Continuous Pull Solenoid

- 12VDC
- · Pull type
- · Open case style
- · Holding force: 3.1 lbs.
- · Power: 4.5 watts
- · Typical coil resistance: 46.7Ω
- Case size: 1.2"L x 0.8"W · Weight: 0.2 lbs.

Part No. Description 144178 12VDC solenoid.

.\$4.95 \$4.49 \$3.25

1-9 10-24 25-49

25-49



24VDC Tubular Pull Solenoid

- 24VDC
- Pull type · Typical coil resistance: 121Ω
- · Coil gauge: 34 AWG
- · Coil turns: 2570

· Weight: 0.4 lbs.

Part No. Description 1-9 10-24 **128557** 24VDC solenoid \$4.95 \$4.49 \$3.25



- Voltage: 24VDC
- Resistance: 31Ω
- · Power: 19 watts
- · Treatment: plastic encapsulation; Class A rating (standard)
- Maximum operating temp.: Class A 105°C (221°F)
- Dielectric strength: 30V and under: 500 VRMS; over 30V: 1000 VRMS plus 2X rated voltage
- for one minute Dimensions: 1.9"L x 1.4"W x 1.2"H
- · Weight: 0.4 lbs.

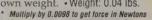
Part No. Description 1-9 10-24 25-49 131351 24VDC solenoid\$3.95 \$3.49 \$2.49

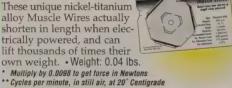
MONDO • TRONICS Muscle Wire and Accessories wire is being used on Mars, visit

For more information on how Niting!

Muscle Wires

These unique nickel-titanium alloy Muscle Wires actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Weight: 0.04 lbs.

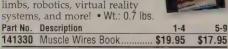




			Wire Diameter	Linear Resistance	Typical Current	Deform Weight*	Recovery Weight*	Typical	Length		
F	Part No.	Description	(microns)	(ohm/m)	(mA)	(grams)	(grams)	Rate**	(meters)	1-4	5-9
li	41882	Flexinol 050LT	50	510	50	8	35	46	1	\$17.95	\$15.95
li	141321	Flexinol 100LT	100	150	180	28	150	33	1	17.95	15.95
1	141874	Flexinol 150LT	150	50	400	62	330	20	1	19.95	17.95

Muscle Wires Project Book

Get the facts behind the unusual properties of Muscle Wires. Study their uses in heat engines, industrial, medical and aerospace applications, electronic and mechanical devices, prosthetic limbs, robotics, virtual reality



Muscle Wires Book & Deluxe Kit

· Includes Flexinol, crimps and instructions Part No. Description 141348 Muscle Wires kit \$59.95 \$53.95

Electric Pistons (Deluxe 5-Pack)

The Electric Piston is a shape memory alloy actuator that pulls with up to one pound of force and contracts by 20mm. Typical activation requires just one volt at five amps for two seconds. Plus, mount several pistons in parallel for more strength, and in series for longer strokes.

· Pack includes five pistons, battery, leads and plans for four complete projects • 1 volt @ 5 amps • Weight: 0.3 lbs

Part No. Description 141903 Electric piston pack \$35.95 \$39.95

Space Wings Kit

Sleek silvery mylar wings flap silently using only five centimeters of Muscle Wire. Stands 15 cm tall and flaps up to 36 times per minute. "No, it really doesn't fly." Includes a printed circuit board, parts and detailed instructions.

 Assembly requires soldering iron, solder, screw driver, wire cutters and two AA batteries (not included) • Weight: 0.06 lbs.

Part No. Description 141313 Space wings kit......\$19.95 \$17.95

Nitinol Live Wire

Colorful packaged Ni-Ti wire for use with just hot and cold water! Moves with surprising force and speed. Makes a fascinating and captivating hands-on classroom demonstration.

- 450 micrometer diameter
- · Length: 7.5 cm
- Set of three packages Weight: 0.05 lbs.

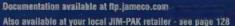
Part No. Description 10-24 141891 Nitinol live wire pack \$9.95 \$8.95

99.7% Stock



\$1.39 Sale price good at this quantity only





Features: Excellent for precision control

Excellent torque/size ratio

· Can be operated in forward/reverse mode

· Unipolar and bipolar motors available

Bipolar and Unipolar Stepper Motors

Fig. 1





Fig. 3



Fig. 4

 Wide variety of supply voltages Data sheet included See pages 64-68 for compatible power supplies Phase Phase Phase Detent lorque bole space bole diameter 		,			,		1 1					/N 105881	
Part Product Step No. of Drive Voltage resistance Current Inductance torque torque hole space hole diamete	• Wide	variety of s	sup	ply v	oltages	s • Da	ta shee	et include	ed •				
No. 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (Part	Product						resistance	Current	Inductance	torque		Shaft diameter

l	Part	Product		Step	No. of	Drive	Voltage	Phase resistance	Current	Phase Inductance	Detent torque	Holding torque	Mounting hole space	Mounting hole	Shaft diameter	Shaft length	Motor diameter	Motor height	Weight		Pricing	
I	Number				phases		(VDC)	(Ohms)	(mA)	(mH)	(g-cm)		diagonal (in.)		(in.)	(in.)	(in.)	(in.)	(lbs.)	1-9	10-24	25-49
l	124100	KP56KM1	1	0.9°	2	Bipolar	1.3	1.9	1000	.5	35	280	2.60	0.10	0.250	0.53	2.25	2.65	1.00		C	\$4.49
ı	130112	23LQC202	1	0.9°	2	Bipolar	1.9	3	750	5	35	280	1.77	0.19	0.250	1.25	2.22	1.65	1.00	3.95	3.49	1.95
ı	114833	HD235746	2	15°	2	Bipolar	5	22	220	5.5	3.5	27	1.20	1.15	0.125	.4/.48	1.10	0.64	0.09			1.95
l	117954	LB82773-M1	4	7.5°	2	Bipolar	5	6.25	800	7.0	100	1080	2.60	1.95	0.250	0.75	2.25	0.99	0.61			5.95
ı	105881	SM4203	3	3.6°	2	Bipolar	12	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.38	0.55	6.95	5.95	4.25
ı	124097	SM3400	1	1.8°	2	Bipolar	24	53	440	130	135	600	2.56	0.20	0.250	0.73	2.22	1.02	0.75	4.95	3.95	2.95
ı	128629	103-820-024	1	2.0°	4	Unipolar	4.5	66	1000	40	20	180	3.85	0.22	0.375	1.18	3.40	2.45	2.83		Closedist	5.49
ı	105873	SM4202	3	3.6°	4	Unipolar	12	75	150	43	80	504	1.73	0.11	0.197	0.43	1.66	1.35	0.55	4.95	3.95	2.75
I	105890	SM4200	3	3.6°	4	Unipolar	12	75	150	39	80	600	1.73	0.11	0.197	0.43	1.66	1.35	0.55	6.95	5.95	4.25
ı	128611	103-771-18	1	1.8°	4	Unipolar	24	140	160	68	80	600	1.62	0.20	0.250	0.95	2.22	2.05	1.16	9.95	8.95	7.49
H															- 1							

RMV Stepper Motor Control and Data Acquisition Boards Assembled

- . 3 wire serial port (Rx, Tx and GND) configurable to any standard baud rate in the 300-115200 range (N,8,1)
- Three 8/10/12 bit ports (PA/PB & PC) configurable pin for pin as inputs or outputs · Edge triggered multiple interrupt pins (IRQH & IRQL)
- Three stepper motor ports with all the necessary logic to implement monophasic, biphasic and half-step stepping modes
- · Connectors not included
- Size: 6.0"L x 2.6"W · Weight: 0.2 lbs. · One-year warranty
- Includes manual

^-W	RS C.	- A
0-m	R6 D-	_ в
* *** (R)-:	R D1	_ *
T-44	R8 [A]	_ 6
	VVV	

Driver Schematic

109911 Shown with connectors

Suggested Values for Above Circuit:

	Part No.	Quantity	Designator	Description	Price
	29655	4	R1-R4	1K ohm,1/4 watt resistor	\$.15
	30859	4	R5-R8	330 ohm,1/4 watt resistor	.15
	25857	4	Q1-Q4	MJE 3055T transistor	.75
	76970	4	D1-D4	1N4003 diode	.06
-					D 1

Part No.	Product No.	Description	Price
109911	JE2328A	8-bit stepper motor control/ADC board\$12	24.95
112117	JE23210A	10-bit stepper motor control/ADC board	34.95
140484	JE23212A	12-bit stepper motor control/ADC board14	19.95

CLIMAX Shaft Couplers and Collars (For Stepper Motors)

P/N 138288: • Black oxide steel • Two set screws







138288

P/N 106606: Coupler can also be used to adapt the shaft size of a motor, from 0.125" to 0.25"

P/N's 138296, 138309, 138317: • Zinc plated steel • Designed with set screw

Part No.	Product No.	Manufacturer	Description	Outside Diameter	Length	Wt. (lbs.)	Set Screw	1-9	10-99	100+
106606	USC14	Jameco	1/4" coupler	5/8"	0.56"	0.02	N/A	\$.99	\$.89	\$.75
138296	C012	Climax	1/8" collar	11/16"	5/16"	0.01	4-40 x 3/8	.85	.65	.49
138309	C018	Climax	3/16" collar	11/16"	5/16"	0.01	4-40 x 3/8	.85	.65	.49
138317	C025	Climax	1/4" collar	11/16"	5/16"	0.01	4-40 x 3/8	.85	.65	.49
138288	RC025	Climax	1/4" coupler	1/2"	0.75"	0.03	10-32 x 1/8	3.95	3.49	3.25

DC Motors

- DC voltage: 12, except P/N 136119: 2.1 and 132231:10
- Easy to use Wide voltage range Bronze bearings
- Great for motor driven projects such as race cars
 High RPM
- Save with Ni-Cad rechargeable batteries found on page 58
- · A wide selection of compatible battery holders are also available on page 58

Part No.	Product No.	Voltage Range	Current	Terminal Type	RPM (max)	Shaft Dia.	Shaft Length	Size D" x L"	Wt. (lbs.)	1-9	10-99	100-999
136119	NN2732	1.0V to 12.0V	1.25A	.11"/solder	10000	0.09"	0.57*/0.38*	1.08 x 1.47	0.12	\$1.49	\$1.25	\$.79
132231	HC987G	10.0V to 30.0V	4.47A	.187"/solder	18590	0.20"	0.60"	2.02 x 3.35	1.03	4.95	4.49	3.25
129437	VE40320	6.0V to 12.0V	0.04A	.10"/solder	6500	0.08"	0.25"	.90 x 1.60	0.08		Closeout	.99
133903	HC315G	6.0V to 30.0V	0.25A	.10"/solder	15330	0.09"	0.47"	1.10 x 1.20	0.11	1.75	1.49	1.19

RMV Multi Stepper **Motor Control Board**

- Controls four Shown with motors stepper – not included motors independently up to 50V and 2A max.
- Communication with PC via RS232 at 300 to 115200 baud
- Can be controlled by network through ITC I/O-485 board for controlling up to 128 independent steppers from one serial port
- Acceleration and deceleration modes
- 8 TTL compatible I/O lines Six-month warranty
- High and low interrupt lines . Weight: 1.4 lbs.
- 11 channel AD converter with 8, 10, or
- 12 bits of resolution Size: 8.0"L x 5.1"W x 1.3"H
- · DLL and downloadable demo available

Description 140492 Multi stepper motor control board ..\$349.95

6 Piece Gear Set

- Works with DC motors with 0.08" shaft diameter
- Heavy-duty plastic construction
- Pitch: 0.125'
- Weight: 0.3 lbs



Description	n	Teet	h	Shaft Bore	Shaff	Dia.		Gea	ar Dia.
T10		10		0.151"	0.156	(5/32)"		0.	.457"
T20		20		0.151"	0.156	(5/32)"		0.	.855"
T30		30		0.151"	0.156	$(5/32)^{\circ}$		1.	.239"
T40		40		0.151"	0.156	(5/32)"		1,	.634"
T50		50		0.151"	0.156	(5/32)"		2.	.016"
Bushing		_		0.075"	0.078	(5/64)"		0.	.160"
Dort No.	Drad	Ma	Da	conintion	4.0	40.24	25	40	EQ.

6 pc. gear set \$4.95 \$4.49 \$3.95 \$3.25 131801 GA1 **One Touch Selectable Gear Box Kit** NEW

One touch slide switch with 6 gear ratio possibilities 6.8:1 to 807.93:1

• Assembly required; 35 pc. Kir

novice difficulty level Size: 2.5"L x 1.1"W x 1.5"H

· Weight: 0.3 lbs. Prod. No. 145509 OWIGB25 Selectable Gear Box.. \$14.95 \$13.49



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242

Website http://www.jameco.com

Hardware

· Zinc-plated steel · Sold 100 pcs per bag (min.)



	Slotted Pan Head Machine Screws										
Part	Screw	Length/Dia.	100 pcs. min.								
Number	Size	(inches)	100 (C)	1000 (K)							
38172	2-56	1/4	\$2.20/C	\$14.00/K							
143642	4-40	3/16	1.30/C	7.00/K							
40951	4-40	1/4	1.40/C	10.00/K							
40969	4-40	3/8	1.50/C	11.00/K							
106809	4-40	1/2	1.60/C	12.00/K							
106542	6-32	1/4	1.60/C	12.00/K							
42446	6-32	3/8	2.00/C	13.00/K							
42438	6-32	1/2	2.20/C	14.00/K							
143634	8-32	1/4	2.20/C	13.50/K							
106817	8-32	3/8	2.50/C	14.50/K							
106796	8-32	1/2	2.70/C	15.00/K							

106825	4	.281	\$1.50/C	\$11.00/K							
106833	6	.373	1.50/C	11.00/K							
106841	8	.377	1.50/C	11.00/K							
0											
106850	4	.258	\$1.00/C	\$8.00/K							
106868	6	.277	1.00/C	8.00/K							
106876	8	.323	1.00/C	8.00/K							
Split Lock Washers											
400700	0	404	64 0010	00.00.00							

106/88	2	.161	\$1.00/6	\$8.00/K 6.00/K
42462	6	.205	.80/C	6.00/K
51609	8	.279	.90/C	7.00/K
0		Hex No	ıts	•
38164	2-56	.183	\$1.10/C	\$8.50/K

38164	2-56	.183	\$1.10/C	\$8.50/K
40942	4-40	.243	1.10/C	8.50/K
42420	6-32	.306	1.10/C	8.50/K
51553	8-32	.334	1.50/C	11.00/K
Black	Inte	rnal The	eaded H	andles



Standoffs/Spacers Grab Bag

· Perfect for prototyping

and educational projects · Inexpensive way to expand variety of components



. Use our 20 drawer cabinet (with blank white ID labels) to store your components, P/N 81701 (pg 32)

Part Number	Product Number	Description	1-9	10-24
55968	GB140★	100 asst. alum. and nylon spacers/st. (Sizes 2-56 to 8-32, round & hex)\$		

Rare Earth Magnet This magnet has an

131334 Magnet, rare earth

unusually high energy output volume, yet is almost immune to demagnetization. Magnets cannot be shipped by air. Part No. Description



\$.75

Aluminum, Brass and Steel Standoffs

Material: aluminum – QQ A225/3/8 and A200/9

• Finish: clear irdite per MIL-C5541-C

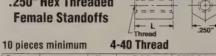


.187" Hex Threaded **Female Standoffs** Aluminum

10 pieces minimum

Part	Thread	Hex	Pricing		OEM Pricin	
Number	Size	Length	10-99	100	500	1000+
143301	2-56	.420"	\$.15	\$.13	\$.10	\$.09
143319	2-56	.687"	.15	.13	.09	.08
133612	4-40	.250"	.17	.15	.11	.10
133639	4-40	.500"	.22	.19	.16	.12
139791	4-40	.561"	.22	.19	.09	.06
133647	4-40	.625"	.22	.19	.14	.12
133655	4-40	.750"	.27	.24	.19	.17
139184	4-40	1.00"	.29	.26	.20	.18

.250" Hex Threaded **Female Standoffs**



Part		Hex	Pric	ing	OEM F	Pricing
Number	Material	Length	10-99	100	500	1000+
139192	Aluminum	.250"	\$.15	\$.13	\$.10	\$.09
77500	Aluminum	.375"	.15	.13	.11	.10
143360	Aluminum	.413"	.15	.13	.06	.05
134762	Aluminum	.435"	.16	.14	.07	.06
108370	Aluminum	.500*	.17	.15	.13	.11
77518	Aluminum	.625"	.19	.17	.13	.11
143335	Steel	.687"	.22	.19	.13	.11
133604	Aluminum	.750"	.22	.19	.16	.14
143343	Steel	.750"	.25	.22	.15	.13
143386	Aluminum	.875"	.25	.22	.15	.13
139205	Aluminum	1.00"	.29	.26	.23	.19
143327	Steel	1.31"	.35	.29	.17	.15
128573	Aluminum	1.375"	45	.39	35	29

.250" Hex Threaded Female Standoffs

10 pieces minimum 6-32 Thread

Part		Hex	Pric	eing	OEM F	Pricing
Number	Material	Length	10-99	100	500	1000+
77534	Aluminum	.250"	\$.15	\$.13	\$.10	\$.09
133591	Aluminum	.375"	.17	.15	.13	.11
143378	Steel	.375	.19	.17	.12	.10
77542	Aluminum	.500"	.17	.15	.13	.11
77551	Aluminum	.625"	.19	.17	.15	.11
143431	Bevelled alum	.735"	.25	.22	.15	.13
77569	Aluminum	.750"	.27	.24	.21	.16
143351	Aluminum	.875"	.27	.24	.21	.16
77577	Aluminum	1.00"	.29	.26	.20	.17
143394	Steel	1.00"	.35	.29	.17	.15
139803	Aluminum	1.25"	.35	.29	.17	.15
143669	Brass	1.37"	.39	.35	.22	.19
143415	Steel	1.37"	.39	.35	.22	.19
143466	Black Alum.	1.41"	.39	.35	.22	.19
143407	Aluminum	1.50"	.39	.35	.25	.22
143440	Aluminum	1.75"	.39	.35	.22	.19
108345	Steel	1.75"	.45	.39	.32	.29

.250" Hex Threaded Female Standoffs

10 pieces minimum 8-32 Thread

Thre

Leng

250

Part			Hex	Pricing		OEM Pricing	
Numb	er	Material	Length	10-99	100	500	1000+
1434	23	Aluminum	.750"	\$.29	\$.26	\$.20	\$.17

.187" Hex Jack **Screws**

 Yellow chromate finis Aluminum Thread

Size

4-40

4-40

Part

Number

133575

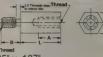
133583

h	B	Win.	.187
ad	Pric	ing	0EM
yth	1-9	10-99	100-499

\$.35

ad	Driging	OFM
1 7	8 187	.18
	-4-40 Thread	

.250" Hex Threaded Male-Female **Standoffs**



 Thread length (A x B): .25" x .187" 4-40 Thread 10 pieces minimum

Part		Hex	Pricing		OEM I	OEM Pricing	
Number	Material	Length	10-99	100	500	1000+	
77585	Aluminum	.250"	\$.27	\$.24	\$.21	\$.18	
77593	Aluminum	.375"	.29	.26	.19	.17	
111755	Aluminum	.500"	.29	.26	.22	.19	
139213	Aluminum	.625"	.35	.29	.22	.19	
139221	Aluminum	.750"	.35	.29	.22	.19	
139230	Aluminum	1.00"	.39	.35	.29	.22	
143474	Aluminum	1.13"	.39	.35	.22	.19	
128565	Aluminum	1.25"	.39	.35	.22	.19	

.250" Hex Threaded Male-Female Standoffs

Thread length (A x B): .375" x .25"

10 pieces	minimum	6-32	Thread

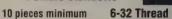
Part		Hex	Prie	cing	OEM I	ricing
Number	Material	Length	10-99	100	500	1000+
133541	Aluminum	.250"	\$.27	\$.24	\$.19	\$.17
143458	Steel	.250"	.29	.26	.18	.15
133567	Aluminum	.375"	.29	.26	.20	.18
143482	Aluminum	.437"	.29	.26	.20	.18
77606	Aluminum	.500"	.29	.26	.20	.18
139248	Aluminum	.625"	.35	.29	.22	.19
139811	Aluminum	.689"			Cleseout	.12
77622	Aluminum	.750"	.35	.29	.25	.19
77649	Aluminum	1.00"	.35	.29	.25	.19
.250" H	ex Threa	ded M	ale-Fr	emale	Stan	doff

Thread length (A x B): .4375" x .375"

10	pieces	minimum	8	-32	Thread	
						=

Part		Hex	Pric	cing		Pricing
Number	Material	Length	10-99	100	500	1000+
	Aluminum		\$.29	\$.26	\$.18	\$.15
	Aluminum		.32	.27	.20	.18
143511	Aluminum	.500"	.35	.29	.21	.19
					-	

.250" Jointed Hinged **Female Standoffs**



Part Overall Pricing OEM Prici							
Number	Material	Length	10-99	100	500	1000+	
143520	Brass	.750"	\$.49	\$.39	\$.25	\$.19	
OFO!! Downed							

.250" Round **Threaded Female Standoffs**



O piece	es minimu	m 4-4 0)]	hread	
14	(1			

rait			Pricing		DEMI I	ricing
Number	Material	Length	10-99	100	500	1000+
143600	Aluminum	.687"	\$.15	\$.13	\$.11	\$.07
143626	Steel	.750"	.19	.17	.12	.10
143589	Aluminum	1.00"	.27	.24	.16	.14
143597	Steel	1.00"	.29	.26	.18	.15
143618	Aluminum	1.56"	.35	.29	.21	.19
0.00						

.250" Round Threaded Female Standoffs

6-32 Thread 10 pieces minimum

Part			Pric	cing	OEM I	Pricing
Number	Material	Length	10-99	100	500	1000+
143538	Aluminum	.312"	\$.15	\$.13	\$.11	\$.07
143571			.17	.15	.13	.09
143546	Aluminum	.500"	.17	.15	.13	.09
143562	Steel	1.25"	.29	.26	.23	.15
143554	Aluminum	1.25"	.27	.24	.21	.13



\$1,39 Sale price good at this quantity only

\$.99

SALE Sale price to the right of banner good for that quantity, or less



\$.45



Also available at your local JIM-PAK retailer - see page 128



Line, Computer and Power Cords

Line, Computer and Power Cords

Molded connectors

UL/CSA/VDE approval listed below

· Excellent resistance to jacket abrasion

10

12

Temperature: -20°C to 60°C

· Voltage rating: 300 volts Volts

AWG

18

16

14

















Line Cord

Power Cord

We carry major manufacturers – call for large OEM pricing.

Computer Power Cord

Right Angle Computer Cord

Piggy-Backed Computer Cord

VA Amps 1250 1500 1875

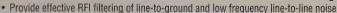




14	125 15	Power Supply Extension Cord Monitor Power A	Adapter	Cord Ho	ospital	Grade Po	ower Co	rd	Euro Style Pl	lug	RFI Por	wer Cord
Part Number	Product Number	Description	Weight (lbs.)	Agency Approvals	Figure	Length	Color	AWG	Cord Type	1-9	10-99	100-249
112723	E74713	2-conductor power cord with pigtail	.13	UL/CSA	1	5 ft.	Gray	18/2	SPT-1	\$.99	\$.79	\$.65
124433	ST008	2-conductor power cord with pigtail	.16	UL/CSA	1	5 ft. 2"	Black	18/2	SPT-2*	.99	.79	.55
42041	17106	2-conductor power cord with pigtail	.25		1	6 ft.	Black	18/2	SPT-2*	1.15	.99	.79
146309	PC182J6	2-conductor power cord with pigtail	.31	UL/CSA	1	6 ft.	Black	18/2	SJT	1.49	1.25	.99
146317	PC182J8	2-conductor power cord with pigtail	.41	UL/CSA	1	8 ft.	Black	18/2	SJT	1.75	1.49	1.25
37997	17236	3-conductor power cord with pigtail	.30	UL/CSA	.2	6 ft.	Black	18/3	SVT	1.95	1.75	1.49
38009	17237	3-conductor power cord with pigtail	.31	UL/CSA	2	6 ft.	Gray	18/3	SVT	1.95	1.75	1.49
38025	17238	3-conductor power cord with pigtail	.39	UL/CSA	2	8 ft.	Black	18/3	SVT	2.95	2.49	2.25
102007	17535B	3-conductor power cord with pigtail	.49	UL/CSA	2	9 ft. 10"	Black	18/3	SVT	2.49	2.25	1.95
100271	17629B	3-conductor power cord with pigtail	.88	UL/CSA	2	9 ft.	Black	14/3	SJT	4.49	3.95	3.49
103747	17248	3-conductor detachable power supply cord	.34	UL/CSA	3	6 ft.	Gray	18/3	SVT	2.95	2.49	1.75
38041	17249	3-conductor detachable power supply cord	.37	UL/CSA	3	6 ft.	Beige	18/3	SVT	2.49	2.25	1.49
38050	17250★	3-conductor detachable power supply cord	.36	UL/CSA	3	6 ft.	Black	18/3	SVT	3.49	2.95	2.25
132118	17500	3-conductor detachable power supply cord	.44	UL/CSA	3	6 ft.	Black	18/3	SJT	3.49	2.95	2.25
142607	WTP-003	3-conductor detachable power supply cord	.63	CSA	3	6 ft.	Black	16/3	SJT	3.75	3.25	2.49
125541	17504	3-conductor detachable power supply cord	.71	UL/CSA	3	6 ft. 7"	Black	14/3	SJT	3.95	3.49	2.75
146069	VM0232S	3-conductor detachable power supply cord w/RFI filter	.73	UL/CSA	10	6 ft. 8"	Gray	18/3	SJT	3.95	3.49	2.95
117583	17502	3-conductor detachable power supply cord	.37	UL/CSA	3	8 ft.	Gray	18/3	SVT	3.49	2.95	1.95
145681	17251	3-conductor detachable power supply cord	.54	CSA	3	8 ft.	Black	18/3	SVT	4.49	3.95	3.49
102023	17501	3-conductor detachable power supply cord	.55	UL/CSA	3	9 ft. 10"	Black	18/3	SVT	3.49	2.95	2.49
78078	17250F	3-conductor detachable power supply cord	.40	CSA	3	8 ft.	Black	18/3	SPT-2*	3.49	2.95	2.25
117356	8120-6177	3-conductor detachable right angle power supply cord	.41	UL/CSA	4	7 ft.	Gray	18/3	SVT	2.95	2.49	2.25
38076	17250R	3-conductor detachable right angle power supply cord	.54		4	6 ft.	Black	18/3	SVT	2.95	2.49	1.95
84937	S1184	3-conductor detachable piggy backed computer power cord	.47	UL/CSA	5	6 ft.	Black	18/3	SJT	2.95	2.49	1.75
28468	PEC	3-conductor computer power supply extension cord	.36	UL/CSA	6	6 ft.	Black	18/3	SVT	3.75	3.25	2.25
121291	PEC2	3-conductor computer power supply extension cord	.55	UL/CSA	6	8 ft.	Black	18/3	SJT	3.95	2.95	2.49
26382	MPC6	3-conductor monitor power adapter cord	.40	UL/CSA	7	6 ft.	Black	18/3	SVT	3.95	3.49	2.95
115078	17006	3-conductor power cord w/ hospital grade male plug (green dot)	.84	CSA	8	10 ft.	Black	16/3	SJT	6.95	6.25	5.49
132011	17006G	3-conductor power cord w/ hospital grade male plug (green dot)	.82	CSA	8	10 ft.	Gray	16/3	SJT	6.95	6.25	4.95
117911	FH2-M1095	3-conductor detachable power supply cord. Euro style plug	.38	VDE	9	6 ft.	Black	18/3	VDE	3.95	3.49	2.95
138270	H05VVF	3-conductor detachable power supply cord. Euro style plug	.44	VDE	9	6 ft.	Beige	18/3	VDE	3.95	3.49	2.49
	*SPT-2 (Flat Cord) See page 50 for AC Power Cord Ties and below for power line filters											

AC Power and RFI Line Filters, Plugs and Sockets

AC Power Filters, Plugs and Sockets



Frequency: 50/60Hz
 Switch selectable input voltage switch

- Power entry filters/non-filters are compatible with power cord 38076 (see above)
- Line filters and power outlet are compatible with power cord 37997 (see above)
- 115502 has 3.25" lead wire and ground terminal, with ring terminal for #8 stud
- · See page 64 for compatible disconnect and ring solderless terminals

. Note: Terminal position may vary





141217





Part Number	Manufacturer	Product Number	Description	Current (Amps)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	A	В	С	D	Weight (lbs.)	1-9	10-49	50-99
40601	Delta	3EF1	Power entry filter, straight	3		quick disconnect		.25"	1.96	0.85	1.92	1.57	0.11	\$4.95	\$4.49	\$3.49
113890	Delta	03DEEG3B-R	Power entry filter, straight	3	250	quick disconnect	UL/CSA/VDE	.187"	2.45	0.85	2.15	1.57	0.11	1.29	1.09	.99
114112	Delta	03DEEG3E	Power entry filter, straight	3	250	quick disconnect	UL/CSA/VDE	.25"	2.05	0.82	2.10	1.575	0.10	1.95	1.75	1.25
117428	CDE	APFM300CEE	Power entry filter, straight	3	250	quick disconnect	UL/CSA	.25"	1.95	0.85	1.75	1.6	0.08		Closeeut	.25
42454	Delta	6EF1	Power entry filter, straight	6	250	quick disconnect	UL/CSA/VDE	.187"	1.96	0.86	2.17	1.57	0.11	5.49	4.95	3.95
115502	Delta	06GENG3ER	Power entry filter (snap-in)	6	240	quick disconnect	UL/CSA/VDE	.25"	1.22	0.95	2.08	N/A	0.11	1.29	1.09	.99
141217		CO-1100	Power entry non-filter plug	6	250	solder terminal	UL/CSA/TUV	.27"	1.96	0.89	1.10	1.58	0.03	.99	.79	.59
16651	JEC	JR101	Power entry non-filter plug	10	250	quick disconnect	UL/CSA/VDE	.187"	1.96	0.87	1.11	1.57	0.03	.99	.79	.59
117065	Nicoon	NC185	Power outlet non-filter socket	15	250	quick disconnect	UL/CSA	.25"	1.98	1.13	1.35	1.6	0.03		Closeout	.08
40521	Rong Feng	3AC	Power outlet non-filter socket	15	125	quick disconnect	UL/CSA	.187"	1.06	1.06	1.29	N/A	0.03		Closecut	.10
117444	Schurter	PF11	Power entry non-filter plug, fused	6	250	quick disconnect	UL/CSA	.25"	1.22	1.33	1.18	N/A	0.04	1.29	1.09	.99



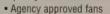
Tube Axial AC Fans





We carry major manufacturers - call for pricing over 100.

- Low acoustical noise rating
 Rating 115VAC @ 50/60Hz
- Rating 220VAC @ 50/60Hz Manufacturers may vary
- Ball and sleeve bearings Air flow from 15 to 215 CFM
 - · Power input by lead wires or terminals







112387

109874

For Fan Guards and Cords - see below

€ CE

106585 131983

Part		Product	Dimensions (In.)	Voltage	Air Flow	Bearing	Current	Power	Agency	Noise			Pricing	
Number		Number	W" x H" x D"	(AC)	CFM	Ball/Sleeve	(mA)	Watts	Approvals	(dba)	Wires/Terminals	1-9	10-49	50+
146077	Toyo Fan	USTF80251153W	3.15 x 3.15 x 1.00	115 VAC	20	Ball	85 mA	5.0	CSA	33	12" lead wires	\$12.95	\$11.95	\$10.95
75408	Fulltech	UF80B12SWH★	3.15 x 3.15 x 1.00	115 VAC	24	Sleeve	140 mA	14.0	UL, CSA, TUV	35	12" lead wires	11.95	10.95	9.95
111915	Fulltech	UF80A12L	3.15 × 3.15 × 1.50	115 VAC	20	Sleeve	110 mA	12.0	UL, CSA	32	12" lead wires	10.95	9.95	8.95
16977	Fulltech	UF80A12BWL★	3.15 x 3.15 x 1.50	115 VAC	25	Ball	110 mA	11.0	UL, CSA, TUV	32	12" lead wires	13.95	12.95	11.95
16969	Fulltech	UF80A12BTL★	3.15 x 3.15 x 1.50	115 VAC	25	Ball	110 mA	11.0	UL, CSA	32	terminals	13.95	12.95	11.95
112387	Fulltech	UF80A12SWH	3.15 x 3.15 x 1.50	115 VAC	30	Sleeve	120 mA	12.9	UL, CSA	36	12" lead wires	11.95	10.95	9.95
102904	Sunon	SF11580A-1083HBL	3.15 x 3.15 x 1.50	115 VAC	31	Ball	130 mA	12.0	UL, CSA, TUV	36	12" lead wires	14.95	13.95	12.95
75432	Sunon	SF11592A-1092HSL	3.63 x 3.63 x 1.00	115 VAC	36	Sleeve	130 mA	12.0	UL, CSA, TUV	39	12" lead wires	13.95	12.95	11.95
75459	Sunon	SF11592A-1092HBT★	3.63 x 3.63 x 1.00	115 VAC	37	Ball	130 mA	12.0	UL, CSA	40	terminals	14.95	13.95	12.95
124062	Sunon	SP101AT1122HBT	4.68 x 4.68 x 1.00	115 VAC	78	Ball	180 mA	18.0	CSA, TUV	46	terminals	13.95	12.95	11.95
118965	Fulltech	UF12A12BTLL	4.68 x 4.68 x 1.50	115 VAC	52	Ball	85 mA	8.4	_	15	terminals	13.95	12.95	11.95
109874	Fulltech	UF12A12STL	4.68 x 4.68 x 1.50	115 VAC	81	Sleeve	110 mA	9.0	UL, CSA	38	terminals	12.95	11.95	10.95
16951	Jameco	FAN2RFE (used)	4.68 x 4.68 x 1.50	115 VAC	90	Sleeve	150 mA	15.0	UL, CSA	39	terminals	5.95	4.95	3.95
16934	Jameco	FAN1★	4.68 x 4.68 x 1.50	115 VAC	90	Ball	190 mA	15.0	UL, CSA	39	terminals	13.95	12.95	11.95
111894	Sunon	SP101A-1123HSL	4.68 x 4.68 x 1.50	115 VAC	105	Sleeve	180 mA	18.0	UL, CSA	48	12" lead wires	11.95	10.95	9.95
106585	Common Wealth	FP108-1-S1	4.68 x 4.68 x 1.50	115 VAC	105	Sleeve	140 mA	12.0	UL, CSA	35	terminals	12.95	11.95	10.95
102883	Sunon	SP100A-1123XBT	4.68 x 4.68 x 1.50	115 VAC	117	Ball	240 mA	20.0	UL, CSA, TUV	50	terminals	14.95	13.95	12.95
141604	Fulltech .	UF15P12BTH	6.75 x 5.90 x 2.00	115 VAC	205	Ball	440 mA	33.0	_	55	terminals	24.95	22.49	19.95
100917	Sunon	SF23080A	3.15 x 3.15 x 1.50	220 VAC	30	Sleeve	60 mA	13.5	UL, CSA, TUV	35	12" lead wires	14.95	13.95	12.95
131983	Toyo Fan	UT926A8	3.63 x 3.63 x 1.00	220 VAC	30	Ball	30 mA	8.0	UL	37	terminals	14.95	13.95	12.95
102891	Sunon	DP200A-2123XBT	4.68 x 4.68 x 1.50	220 VAC	117	Ball	140 mA	21.0	UL, CSA, TUV	50	terminals	14.95	13.95	12.95
111801	Etri	148VE-0281-030	6.75 x 5.90 x 1.50	220 VAC	123	Ball	60 mA	14.0	UL, CSA	33	terminals		(Carried)	14.95
MARKET AND		JANESSA JANASA SA	Secretary of the second	V., -	7					See See See			1818 5	

Fan Guards, Filters and Cords

Fan Guards and Filters



25734







93323

25726 130104

Fits AC/DC Fans (see above and opposite page)

All guards, screens and filters fit all fans by matching the H" dimension. Example: 18770 fan height is 1.60", 123502 metal guards are 1.60". They fit one another.

Part No.	Description	1-9	10-99	100+
123502	1.60" metal (chrome) guard	\$.99	\$.79	\$.59
120037	2.36" metal (chrome) guard	.99	.79	.59
31923*	3.15" metal (chrome) guard	1.09	.89	.69
123511	3.63" metal (chrome) guard	1.19	.99	.75
93323	3.63" metal (chrome) guard	0	lescout	.49
25734★	4.68" metal (chrome) guard	1.19	.99	.75
138561	3.15" plastic filter w/ mesh	1.95	1.69	1.39
25726★	4.68" plastic filter w/ mesh	1.95	1.69	1.39
138579	3.15" aluminum washable filter	2.95	2.49	2.25
130104	4.68" aluminum washable filter	2.95	2.49	2.25
130104				

JAMECO Fan Plug Cords





104192

- Cord type: SPT-1 (2) conductor black
- · Available in 2 lengths, see below

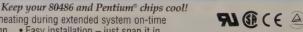
28564

- Voltage rating: 300V Fits all terminal fans
- Temperature range: 105°C
 Weight: .05 lbs.

Į	Part No.	Description	1-9	10-99	100+
ı	28564★	Straight 24" fan cord	\$1.19	\$.99	\$.85
ı	104192	90° 24" fan cord	1.25	1.09	.95

Jameco Heat Sink/Fans for 80486/Pentium® Processors

· Excellent for avoiding CPU overheating during extended system on-time



- nigii e	Therency cooling ian design • Easy Installation – just snap it i	n			
Part No.	Description	Wt. (lbs.)	Agency Approvals	1-4	5-9
85497	486 CPU heat sink only	0.05		SALE	\$2.95
	486 and 586 CPU heat sink with fan	0.1	CSA/CE/TUV	7.95	7.15
	486 and 586 CPU heat sink with fan and heat pump	0.2	UL/CE/TUV	49.95	44.95
117348	Heat sink w/ fan for Pentium® 60/66	0.2	UL/CSA/TUV	12.95	11.49
118092	THE PARTY OF THE P	0.2	CSA/CE/TUV	12.95	8.95
130163	Heat sink w/ fan for 686, Pentium® 75-166 & audible alarm if fan fails	0.2	UL/CE/TUV	SALE	17.95
132097	Heat sink w/ ball bearing fan for 686 and Pentium® 75-166 - square	0.1	UL/CSA/CE/TUV	14.95	13.49
132100	Heat sink w/ screw on ball bearing fan for 686, Pentium® 75-166 - round	0.2	UL/CSA/CE/TUV	SALE	17.95
144864	Heat sink w/ ball bearing fan for Pentium Pro® 150/200 - square	0.3	CE	17.95	15.95
138780	Heat sink w/ fan for Pentium® Pro and audible alarm if fan fails	0.3	UL/CSA/CE/TUV	24.95	22.95







67660

118092

130163





132100



\$1.39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less

Documentation available at flp.jameco.com Also available at your local JIM-PAK retailer - see page 128

See opposite page for 486 and Pentium fans!





We carry major manufacturers - call for pricing over 100.

- Low acoustical noise rating
 Rating 115VAC @ 50/60Hz
 Rating 220VAC @ 50/60Hz
 Manufacturers may vary
- Fan part number 16993 is an ideal replacement
- for the PC/XT computer power supply fan • P/N 134586 is a blower type fan
- P/N 109831 is a temperature
 regulating fan (42°C switch per







	132476	16993	•	_	,	itch point)	(211	Jackina v	_		134586		102875	
Part						109831 (35°C)	7			No.				
	Manufacturer	Product Number	Dimensions (In.) W" x H" x D"	Voltage (DC)	Air Flow CFM	Bearing Ball/Sleeve	Current (mA)	Power Watts	Agency Approvals	Noise (dba)	Connection Wires/Terminals	1-9	Pricing 10-49	50+
131246	Nidec	C34252-55	1.00 x 1.00 x 0.40	5 VDC	1.0	Sleeve	80 mA	0.4		22	3" lead wires	\$10.95	\$9.95	\$8.95
142851	Evox-Rifa	0410N-5	1.60 x 1.60 x 0.40	5 VDC	4.2	Ball	190 mA	0.9		23	2" lead wires	8.95	7.95	6.95
102921	Sunon	KD0504PFS2	1.60 x 1.60 x 0.40	5 VDC	6.3	Sleeve	160 mA	0.6	UL, CSA	24.3	12" lead wires	9.95	8.95	7.95
100896	Elina	FDC40-05M	1.60 x 1.60 x 0.80	5 VDC	6	Sleeve	370 mA	1.9		27	9" lead wires	9.95	8.95	7.95
133111	Elina	KDA120210MB	1.00 x 1.00 x 0.40	12 VDC	1.7	Ball	90 mA	1.3	UL, CSA	26.5	6" lead wires	12.95	11.95	9.95
102912	Sunon	KD1202PFB2	1.00 x 1.00 x 0.40	12 VDC	2.0	Ball	95 mA	1.2	UL, CSA	24.5	6" lead wires	13.95	12.95	11.95
102939	Innovative	SP401012H	1.60 x 1.60 x 0.40	12 VDC	5.3	Sleeve	80 mA	0.9	UL, CSA, TUV	30	12" lead wires	8.95	7.95	6.95
18770	Sanyo Denki	109P0412B704★	1.60 x 1.60 x 0.60	12 VDC	6	Sleeve	60 mA	0.7		22	4" lead wires	6.95	5.95	4.95
136178	Elina	KDA120420L	1.60 x 1.60 x 0.80	12 VDC	4.5	Sleeve	50 mA	0.6	UL, CSA, TUV	19	12" lead wires	6.95	5.95	3.95
75344	Common Wealth	FP108G/DC★	1.60 x 1.60 x 0.80	12 VDC	5.4	Ball	100 mA	1.2	_	25	12" lead wires	8.95	7.95	6.95
132089	United Pro	EC4510	1.77 x 1.77 x 0.40	12 VDC	6	Sleeve	80 mA	0.7	UL, TUV, CE	21	12" lead wires		Closeout	5.95
139601	Elina	KDA120515M	2.00 x 2.00 x 0.60	12 VDC	10	Sleeve	130 mA	1.6		27	12" lead wires	8.95	7.95	6.95
104205	Panaflo	FBA06T12L★	2.36 × 2.36 × 0.60	12 VDC	12	Sleeve	130 mA	1.1		24	6" lead wires	8.95	7.95	6.95
144160	ADDA	AD0612LB-C70GL	2.36 x 2.36 x 0.80	12 VDC	12.6	Ball	80 mA	0.96	UL, CSA, TUV	22.7	6" lead wires	8.95	7.95	6.95
105291	Nidec	TA225DC-A32313-55	2.36 x 2.36 x 1.00	12 VDC	11	Ball	70 mA	0.8		34	6" lead wires	8.95	7.95	6.95
75352	MechaTronics	F6025L12★	2.36 x 2.36 x 1.00	12 VDC	14	Sleeve	85 mA	0.8	UL, CSA	24	12" lead wires	7.95	6.95	5.95
136143	Delta	SB0612M	2.36 x 2.36 x 1.00	12 VDC	17.7	Sleeve	200 mA	1.3	UL, CSA, VDE	26.5	5" lead wires	7.95	6.95	4.95
102947	Sunon	KD1206PTS1	2.36 x 2.36 x 1.00	12 VDC	21.7	Sleeve	190 mA	2.2	UL, CSA, TUV	34	12" lead wires	8.95	7.95	6.95
132476	NMB (Smart Fan)	2410ML-012Q640-00 [†]	2.36 x 2.36 x 1.00	12 VDC	25.1	Ball	300 mA	3.6	UL, CSA	34	12" lead wires	9.95	8.95	7.95
134586	Nidec Blower	A34342-16 (Gamma 28)	2.98 x 2.98 x 1.18	12 VDC	9	Ball	180 mA	2.3		47	5" lead wires	7.95	6.95	5.95
109081	Panaflo	FBA08T12H★	3.15 x 3.15 x 0.60	12 VDC	30	Sleeve	200 mA	2.4		34	12" lead wires	9.95	8.95	7.95
141920	NMB	3108NL-04W-B30	3.15 x 3.15 x 0.80	12 VDC	32	Ball	190 mA	1.68	UL, CSA	31	13" lead wires	9.95	8.95	7.95
75361	NMB	3110NL-04W-B10	3.15 x 3.15 x 1.00	12 VDC	25	Ball	150 mA	1.3	UL, CSA	27	12" lead wires	8.95	7.95	6.95
16993	Jameco	FAN7★ AND	3.15 x 3.15 x 1.00	12 VDC	27	Sleeve	140 mA	1.6	UL, CSA	25	12" lead wires	9.95	8.95	7.95
131748	NMB	3110KL-04W-B20★	3.15 x 3.15 x 1.00	12 VDC	28	Ball	140 mA	1.3	UL, CSA	25	9" lead wires	9.95	8.95	7.95
123529	Sunon	KD1208PTS2	3.15 x 3.15 x 1.00	12 VDC	33	Sleeve	160 mA	2.0	UL, CSA	28	12" lead wires	10.95	9.95	8.95
102955	Sunon	KD1208PTB1	3.15 x 3.15 x 1.00	12 VDC	42.5	Ball	220 mA	2.6	UL, CSA	36.5	12" lead wires	10.95	9.95	8.95
108425	Innovative	BP922512M★	3.63 x 3.63 x 1.00	12 VDC	32	Ball	200 mA	2.3	UL, CSA	35	12" lead wires	9.95	8.95	7.95
75441	Innovative	SP922512H	3.63 x 3.63 x 1.00	12 VDC	42	Sleeve	320 mA	3.1	UL, CSA, TUV	40	12" lead wires	8.95	7.95	6.95
102963	Sunon	KD1209PTB1	3.63 x 3.63 x 1.00	12 VDC	51	Ball	220 mA	2.6	UL, CSA, TUV	34	12" lead wires	10.95	9.95	8.95
116476	Panaflo	FBA09A12H	3.63 x 3.63 x 1.00	12 VDC	56.8	Sleeve	225 mA	2.7	UL, CSA	35	6" lead wires	9.95	8.95	7.95
75467	NMB	4710NL-04W-B30	4.68 x 4.68 x 1.00	12 VDC	70	Ball	320 mA	2.9	UL. CSA. VDE	34	4" lead wires	9.95	8.95	7.95
102875	IMC (Boxer)	4710NL-04W-B50	4.68 x 4.68 x 1.00	12 VDC	90	Ball	740 mA	6.8		39	12" lead wires	10.95	9.95	8.95
136151			4.68 x 4.68 x 1.50		66	Ball	300 mA	1.7		30	12" lead wires	9.95	8.95	6.95
94625	IMC (Boxer)	4715PL-04W-B30	4.68 x 4.68 x 1.50	12 VDC	95	Ball	310 mA	7.2		43	6" lead wires	10.95	9.95	8.95
139504	Rotron	MD12B1✓	4.68 x 4.68 x 1.50	12 VDC	110	Ball	500 mA	6.0	UL, CSA, TUV		12" lead wires	11.95	10.95	9.95
	NMB (Smart Fan)	4715ML-012P535-00 [†]		12 VDC	100	Ball	500 mA	6.0	UL, CSA	45/31	12" lead wires	11.95	10.95	9.95
100909	Elina	FDC40-24H	1.60 x 1.60 x 0.80	24 VDC	22	Sleeve	145 mA	1.7		27	12" lead wires	8.95	7.95	5.95
1	Sanyo Denki	109P0624H702	2.36 x 2.36 x 0.60	24 VDC	14	Ball	60 mA	1.4	UL, CSA	32	12" lead wires	8.95	7.95	6.95
140661	NMB		2.36 x 2.36 x 0.80	24 VDC	18.4	Ball	100 mA	2.4		31	1.5" lead wires	8.95	7.95	6.95
146093			2.36 x 2.36 x 1.00	24 VDC	23	Ball	100 mA		UL, CSA, VDE	_	12" lead wires	8.95	7.95	6.95
			3.15 x 3.15 x 1.00	24 VDC	41	Ball	110 mA	2.6	UL UL	33	23" lead wires	9.95	8.95	7.95
			3.15 x 3.15 x 1.25	24 VDC	25	Ball	130 mA	3.1		31	12" lead wires	0.00	Climator	4.95
	Innovative		3.63 x 3.63 x 1.00	24 VDC	31	Ball	140 mA		UL, CSA, TUV		12" lead wires	9.95	8.95	7.95
	IMC (Boxer)	4710PL-05W-B20-100		24 VDC	53	Ball	90 mA	2,1		33	12" lead wires	8.95	7.95	5.95
	IMC (Boxer)		4.68 × 4.68 × 1.50	24 VDC	80	Ball	210 mA	4.8		38	12" lead wires	8.95	7.95	5.95
	o (BONOT)		x 1.30 x 1.30	21.700		Dull	ZIVIIIA	7.0		30	. L load wiles	0.30	1.50	0.30



Fuses, Fuse Clips, Holders and Solar Panels

5mm x 20mm Miniature Fuses

Fast Acting Fuses GMA Fuses: 5mm x 20mm



· Recommended for new design · Weight: .003 lbs.

 250mA 	-3 amp (250v)	• 5 amp	(125V)		
Part No.	Amps	1-9	10-99	100	1000+
103886	250mA	\$.17	\$.14	\$.11	\$.09
102040	500mA	17	.14	.11	.09
103907	1 amp	17	.14	.11	.09
103915	2 amp	17	.14	.11	.09
103923	3 amp	17	.14	.11	.07
103931	5 amp	17	.14	.11	.09

Slow Blow Fuses GMC Fuses: 5mm x 20mm



· Recommended for new design • 125V • Wt: .002 lbs.

	Description	Price
103851	5 amp, slow blow fuse Closeout	\$.19

.25" x 1.25" Standard Fuses

Fast Acting Fuses AGC/3AG Fuses: .25" x 1.25" • 250mA-10 amp (250V) • Weight: .004 lbs

Part No.	Amps 1-9	10-99	100	1000+
69403	250mA\$.19	\$.15	\$.09	\$.07
10410	500mA 19	.15	.09	.06
10372	1 amp19	.15	.09	.07
10381	2 amp19	.15	.09	.07
69438	3 amn 10	15	no	07

10401 69462 10 amp19 Slow Blow Fuses

MDL/3AG Fuses: .25" x 1.25"



.09

.07

.06

.15

.15

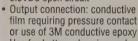
250mA-5 amp (250V)
 10 amp (32V)
 Wt: .005 lbs

Part No.	Amps	1-9	10-99	100	1000+
25654	250mA	.\$.45	\$.39	\$.32	\$.29
25689	500mA	35	.30	.27	.23
25638	1 amp	35	.30	.27	.23
25646	2 amp	35	.30	.27	.23
69534	3 amp	35	.30	.27	.23
25671	5 amp	35	.30	.27	.23
69569	10 amp	45	.39	.32	.29

Jameco .5 Watt Solar Panel

 Rated 9VDC @ 0.06A. .54 watt maximum (for maximum sunlight)

9.5VDC open circuit



· Use for battery charging and other solar applications or experiments

• Size: 6.0"Sq. x 0.1" Thick • Weight: 0.3 lbs.

Part No.	Description	1-4	5-9	10-24
141751	.5W solar panel	\$4.95	\$4.49	\$3.49

Jameco 4 Watt Photovoltaic **Solar Panel**

· Rated 21VDC open circuit (max.)

• 14.5VDC at 0.280A in bright sunlight, short circuit at 0.325A

· Output connection: conductive film requiring pressure contact or use of 3M conductive epoxy

· Use for battery charging and other solar panel applications or experiments

 Use 2 or more panels in series or parallel for increased output . Weight: 1.6 lbs.

Description 5-9 106702 4W solar panel\$24.95 \$22.95 \$19.95

5mm Miniature Fuse Clips

· Accepts 5mm fuses · Weight: .001 lbs. 119280 Size: (not including solder tabs) 102859: 0.3"W x 0.2"L x 0.4"H 119280: 0.2"W x 0.2"L x 0.5"H

Part No. Description 1-9 10-99 100 10004 102859 Fuse clip front leads....\$.13 \$.11 \$.09 \$.07 . .13 119280 Fuse clip side leads.. .11

.25" Standard PCB Fuse Clips

· Accepts .25" fuses

. Tinned brass . Weight: .002 lbs.

· Size: (not including solder taps) 102841: 0.3"W x 0.3"L x 0.3"H 121187: 0.3"W x 0.3"L x 0.4"H

100 1000+ Part No. Description 10-99 **102841** .25" fuse clip (10A) ..**\$.13 \$.11 \$.09 \$.07 121187** .25" fuse clip (20A)17 .14 .11 .09

5mm x 20mm Miniature In-Line **Fuse Holder**

· Accepts 5 x 20mm fuses

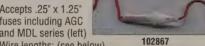
. Wire lengths: both 3.5" · Built-in spring ensures

good fuse connection Size: 2.1"L x 0.6"Dia.
 Weight: .01 lbs

Wire Body Body Color Size(L) Color AWG Part No 1-9 10-99 100+ 109330 20 red 1.8" white\$.49 \$.39 \$.25

.25" x 1.25" Standard In-Line **Fuse Holders**

 Accepts .25" x 1.25" fuses including AGC and MDL series (left)



Wire lengths: (see below)

Built-in spring ensures good fuse connection

Vinyl covered wire with stranded copper center

Part No.	AWG	Wire Lengths	Wire Color	Body Size(L)	Body Color	1-9	10-99	100+
109321	22	3.5"/3"	red	2.4"	black\$	39	\$.35	\$.29
102867	20	3"/3"	red	2.2"	white	59	.49	.39
108783	16	21"/26"	orange	2.2"	black	99	.89	.69
108791	14	19"/25"	red	2.5"	black1.	19	.99	.49

5mm x 20mm Miniature Low **Profile Fuse Holder**

Accepts 5 x 20mm fuses

10A @ 250VAC

UL/CSA recognized

· Weight: .02 lbs.

Part No. Description

 D Style mounting hole (1.4"L x 0.5"Dia.) 10-99 100-999 102832 Fuse holder UL/CSA....\$1.25 \$1.09

5mm x 20mm Miniature **Fuse Holder**

 Accepts 5 x 20mm fuses including GMA and GMC series (left)

• 6A @ 250VAC

Straight solder terminal

· Includes washer and rear hex nut

Mounting hole (1.5"L x 0.5"Dia.)

UL/CSA recognized
 Weight: .02 lbs

Part No. Description 102824 Fuse holder UL/CSA\$.79 \$.69

.25" x 1.25" Standard Panel Mount **Fuse Holders**

· Accepts standard .25" x 1.25" fuses including AGC and MDL fuses (left)



Weight: .03 lbs.

· 120993 for cylindrical style mounting hole, (44"Dia. x .42"flat)

 18702 for D style mounting hole. (.58"Dia. x .52"flat) UL listed - recognized by Underwriters Lab for 10 amps, 250V or less

art No.	Cap Type		1-9	10-99	100	10004
8702*	Thumb screw ca	p (UL/CSA)	\$.89	\$.75	\$.65	\$.57
20993	Thumb screw ca	ip	69	.59	.49	.39

.25" x 1.25" Vertical PCB Mount **Fuse Holder**

Accepts .25" x 1.25" fuses.

· Preformed leads for wave soldering

Size: 1.8"L x 0.5"Dia.
 Weight: .02 lbs.

1-9 10-99 100 1000+ Part No. Description 103552 .25" x 1.25" fuse holder..\$.59 \$.55 \$.49 \$.29

AIC 1000VA IsolationTransformer

 Input 110V/ Output 110V @ 10 amps

· Common "green" wire input/output

· Withstanding surge current 4500A

· Maximum clamping voltage: 360 volts

 Built in output voltmeter, MOV line conditioning and surge suppression, in-line fuse

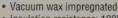
· Dual AC output socket

· Weight: 20.9 lbs

• Size: 8.7"L x 7.0"W x 5.6"H

One-year warranty

Part No. Description 133831 Isolation transformer......\$179.95 \$159.95



Insulation resistance: 100MΩ

Hipot tested: 100VAC

· ±20% impedance matching

• ±20% DC resistance matching · Weight: 0.3 lbs.







105902

Fig. 1





Fig. 2

	Part	Product			Imped	ance (Ω)	Resista	ince (Ω)	Core	Din	nensio	ons		Pricing	
Ш	Number	Number	Color	Fig.	Primary	Secondary	Pri.	Sec.	Type	H"	W"	D"	1-9	10-99	100+
	125356	XFR6006A14	Blue	1	600CT	600CT	65	55	EI-14	0.43	0.57	0.55	\$1.49	\$1.25	\$1.09
	125399	XFR1028A14	Red	1	1.2KCT	8CT	80	1	El-14	0.43	0.57	0.55		Closeout	.49
	125401	XFR60066A14	Blue	2	600CT	600/600	72	56/56	El-14	0.43	0.57	0.55	1.49	1.39	.99
	88284	XFR1801A14	Black	3	18K	100	735	5	El-14	0.43	0.57	0.55		Closeout	.75
4	105902	XFR6006A19	Blue	1	600CT	600CT	65	55	El-19	0.63	0.79	0.75	1.79	1.49	1.29
5	125452	XFR60066A19	Black	2	600CT	600/600	78	65/60	El-19	0.63	0.79	0.75	1.95	1.75	1.25
			1		_					_	_				



\$1.39 Sale price good at this quantity only

12" x 12" x 3/32"

SALE Sale price to the right of banner good for that quantity, or less



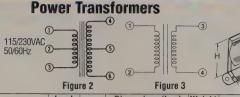
Documentation available at ftp.jameco.com Also available at your local JIM-PAK retailer - see page 128

Power transformers have both single and dual voltage input and center tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier, and filter circuits.

Primary: 115VAC, 115/230VAC 50/60Hz

*Center tap







	i iguie c	,	29223
ĺ	Dimensions (Ins.)	Weight	Pricing

Weight

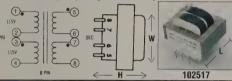
(lbs.)

Part	Product		Input			Output			Lead		Dimensions (Ins.)			Weight	Pricing			
Number	Number	Voltage	C	olor Co	ode	Voltage	(color Co	de	Type	Fig.	L"	W"	H"	(lbs.)	1-9	10-24	25-49
134981	XFR055	115VAC	Black		Black	5.8VAC @ 5A	Black	_	Black	Wire	3	1.81	2.25	1.87	1.2	\$4.95	\$4.49	\$2.95
29225	XFR122	115VAC	Yellow	Sanday Cop.	Yellow	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	9.95	9.49	8.95
102120	XFR124	115VAC	Black		Black	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	11.95	10.95	9.95
112512	XFR242N	115VAC	Black		Black	24VAC @ 2A	White		White	Wire	3	1.75	2.75	2.25	1.8	7.95	6.95	5.95
99653	XFR242	115VAC	Red		Red	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.20	3.10	2.60	2.6	12.95	11.95	9.95
102162	XFR6102	115/230VAC	Black	Yellow'	Red	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.6	4.95	4.49	3.95
105523	XFR0910	115/230VAC	Black	White*	Red	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.79	1.96	1.66	0.7	4.95	4.49	3.49
102154	XFR1220	115/230VAC	Black	Yellow*	Red	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	7.95	6.95	5.95
105531	XFR1810	115/230VAC	Blue	Red*	Black	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.32	2.05	1.90	1.2	5.95	5.49	4.95
102111	XFR2410	115/230VAC	Black	Yellow*	Red	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	7.95	6.95	5.95
102103	XFR2520	115/230VAC	Black	White*	Red	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.47	3.07	2.61	2.8	11.95	10.95	9.95

Split-bobbin provides a cost effective power solution for PC board requirements. They are non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling, eliminating costly electrostatic shielding.

Primary: 115/230VAC 50/60Hz

· PC terminal pin spacing for accurate placement

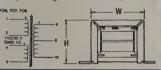


Split-Bobbin Power Transformers

Part	Product	Input	VA	Individual	Parallel	Series	Dimensions		ons Wt.		Pricing		
Number	Number	Voltage	Cap	Output	Output	Output	L"	W"	Н"	(lbs.)	1-9	10-24	25-49
102517	XFR1602SB	115/230	2.4	8V@ .15A	8V@ .30A	16VCT@ .15A	1.17	1.38	1.20	0.3	\$4.95	\$4.49	\$3.95
102533	XFR1205SB	115/230	6.3	6.3V@ .50A	6.3V@ 1A	12.6VCT@ .50A	1.31	1.62	1.30	0.4	5.95	5.49	4.95
102592	XFR2405SB	115/230	12.0	12V@ .50A	12V@ 1A	24VCT@ .50A	1.58	1.90	1.46	0.7	5.95	5.49	4.95
102584	XFR1210SB	115/230	12.6	6.3V@ 1A	6.3V@ 2A	12.6VCT@ 1A	1.58	1.90	1.46	0.7	5.49	4.95	3.95
102605	XFR2010SB	115/230	20.0	10V@ 1A	10V@ 2A	20VCT@ 1A	1.88	2.25	1.41	0.8	9	loseout	2.95

· Quick connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements Terminals: quick connect, soldering

Input voltage: 115/230VAC, 50/60Hz





Quick Connect Power Transformers

	Part	Product	Input	Output		Size of	Dimensions			Wt.		Pricing	
	Number	Number	Voltage	Voltage	VA Cap	Quick Connect	L"	W"	Н"	(lbs.)	1-9	10-24	25-49
	106673	XFR2404T	115VAC	24VCT@ 0.4A	31.5	0.125"	1.70	1.60	1.38	0.6	\$3.95	\$3.49	\$2.95
ı	104387	XFR1225Q	115/230VAC	12.6VCT@ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	7.95	7.49	5.95
ı	104408	XFR1635Q	115/230VAC	16VCT@ 3.5A	56	0.187"	2.00	2.70	2.30	1.8	8.95	8.49	7.95
	101864	XFR2424Q	115/230VAC	24VCT@ 2.4A	57.6	0.187"	1.87	2.70	2.25	1.7	9.95	9.49	8.95
	104416	XFR3615Q	115/230VAC	36VCT@ 1.5A	54	0.187"	1.90	2.70	2.30	1.8	9.95	9.49	8.95

Allows primary power flexibility when buying or designing equipment for the worldwide market place

Wide selection to meet your design requirements







50 to 1000 VA Step-Up / Step-Down Transformers Use European appliances w/ U.S. recoptacles! Product Power Primary Secondary Dimensions Number Number

99573	AC110V50	1	50	220VAC	110VAC	2.50	1.63	1.33	0.7	\$4.95	\$3.95	\$3.49
85016	AC110V300	3	300	220VAC	110VAC	3.50	3.05	3.95	4.8	24.95	22.49	19.95
111851	AC110V500	2	500	220VAC	110VAC	3.99	3.60	4.84	8.5	39.95	35.95	32.95
127699	AC110V1000	2	1000	220VAC	110VAC	4.50	3.70	5.10	11.9	49.95	47.95	44.95
142906	AC110V1500	2	1500	220VAC	110VAC	5.25	4.50	5.75	15.2		SALE	59.95
99477	AC220V50	1	50	110VAC	220VAC	2.50	1.63	1.33	0.7	5.95	4.95	4.49
85008	AC220V300	3	300	110VAC	220VAC	3.50	3.05	3.95	4.8	24.95	22.49	19.95

Variable AC Transformers

Input: 110VAC or 220VAC

· Output: 0-240VAC

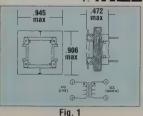
Built-in voltmeter for output voltage monitoring

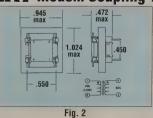
· Banana/screw input terminals · Universal US/European output plugs

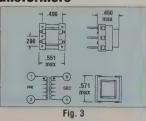
 Lighte 	h	121275			
Part No.	Fuse	Size (L" x W" x	H") Wt. (lbs.)		
121275	3A/250V (P/N 69438)	5.3 x 7.3 x 7	7.0 10.4		
129007	5A/250V (P/N 10401)	9.4 x 6.5 x 7	7.7 14.8		
134842	10A/250V (P/N 69462)	8.5 x 6.5 x 5	5.6 17.3		

Part No.	Description	1-4	
121275	500VA variable transformer	\$99.95	\$89.95
	1000VA variable transformer	SALE	134.95
134842	1500VA variable transformer	169.95	152.95

Nicicul Modem Coupling Transformers







Pricing

10-24

25-49

Weight: 0.04 lbs

Н														
		Product		Impeda	ince (Ω)	Insertion Loss	DC current	Resista	nce (Ω)	Dielectric	Agency		Pricing	
֝֝֝֟֝֝֝֜֜֝֝֟֝֜֜֝	Number	Number	Fig.	Pri	Sec	dB @ 1kHz	mA	Pri	Sec	Strength	Approvals	1-9	10-99	100+
	117760	671-8014	1	600	600	2.5	30	108	120	1250VAC	UL/CSA	\$2.49	\$2.25	\$1.49
ı	125575	671-8025	2	600	374	2.0	0	108	120	1250VAC	CSA		Closeout	.75
	141621	671-8255	3	600	600	1.25	0	46.5	67.6	1250VAC	UL/CSA	1.95	1.75	.99





We specialize in Wall Transformers – call for large OEM pricing.

SALE

4 AC to DC Wall Transformers (Input: 120VAC 60Hz)

c(1) • Plugs into standard 2-prong 115V outlet (except P/N's 136717, 142295: 3-prong)

• Can change any power plug (see opposite page) on any DC wall transformers listed (100 pcs. min.)





Principle Company Co		7	~					,	100 pcs. m			10	C.4		4520	
	1	00853	1554	4	Polarity 1 (+) (center	er nega	itive)	Pola	rity 2 💬	-((CI	enter p	ositive) 15	561		1539	4
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1998 DOSSIPH DOSSIPH	9			1		=			1							
191266 Dicional Contents Service Soon As 2 mm range 2																
1954 1959 1959 1959 2 mm x 5 mm frame 2 x4 189 161 180ck 6 0.4 U., CSA 5,96 4.95 4.29 3.89 127511 1870 2 0 mA 2 mm x 5 5 mm frame 2 x3 17.1 15.5 180ck 6 0.4 U., CSA 4.95 3.69 3.49 3.11 180845 1909(1) 2 0 mA 2 mm x 5 5 mm frame 2 x3 17.1 15.5 180ck 6 0.4 U., CSA 4.95 3.69 3.49 3.15 180845 1909(1) 2 0 mA 2 mm x 5 5 mm frame 2 x3 17.1 15.5 180ck 6 0.4 U., CSA 4.95 3.65 3.49 3.15 180845 1909(1) 3 0 mA 2 mm x 5 5 mm frame 2 x3 17.1 15.5 180ck 6 0.4 U., CSA 4.95 3.65 3.49 3.15 180845 1909(1) 3 0 mA 2 mm x 5 5 mm frame 2 x3 17.1 15.5 180ck 6 0.4 U., CSA 4.95 3.65 3.49 3.15 180845									1-							
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187911 1879409800 1970C																
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1986/1995 1990 19																
182502 182503 9 V 19 V 20 On A 2.5 mm x 5.5 mm frantal 2 2.06 1.70 1.47 Back 6 0.4 U.L. CSA 4.96 3.95 3.49 3.15 190837 COSQUAS 3.97 CO																
193526 0/A5590 9/OC 200 mA 2.5 mm male 2 2.01 1.71 1.55 8ubc 6 0.4 U.C.SA 4.95 3.95 3.49 3.15 137322 ACT35 9/OC 210 mA 3.95 trans male 2 2.01 1.05 1.15 8ubc 6 0.4 U.C.SA 4.95 3.95 3.49 3.15 137324 ACT35 9/OC 210 mA 3.95 trans male 2 2.01 1.05 1.05 8ubc 6 0.4 U.C.SA 4.95 4.25 3.75 2.25 137331 M120 9/OC 400 mA 2.5 mm rs 5.5 mm female 2 2.01 1.05 1.05 8ubc 6 0.4 U.C.SA 4.95 4.49 3.95 2.25 137331 M120 9/OC 400 mA 2.5 mm rs 5.5 mm female 2 2.05 2.00 8ubc 6 0.5 U.C.SA 4.95 4.49 3.95 2.49 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205 1.00835 0/205										6'	0.4		4.95		3.49	3.15
190837 CegaM3 9 VDC 200 mA 3.5 mm mails 2 2 mm x 5.5 mm female 2 2.5 mm x 5.5 mm female 2 2.6 mm x 5.5 mm female 2 2.6 mm x 5.5 mm female 3 2.7 mm x 5.5 mm female				1						6' 6"			4.95			
197322 ACT35									Black	6'	0.4	UL, CSA	4.95	3.95	3.49	3.15
1937331 44120 400 9 VDC 400 mA 2 1mm x 5.5 mm female 2 2.50 1.90 1.74 Black 6 0.6 UL, CSA 4.95 4.49 3.99 3.49 1.00830 1009351 4 9 VDC 500 mA 2 1mm x 5.5 mm female 2 2.50 1.90 1.74 Black 6 0.6 UL, CSA 4.95 4.49 3.99 3.49 1.00830 1009351 1 9 VDC 500 mA 2 1mm x 5.5 mm female 2 2.50 1.90 1.74 Black 6 0.6 UL, CSA 5.75 4.49 3.99 3.49 1.00830 1 9 VDC 500 mA 2 1mm x 5.5 mm female 2 2.50 1.90 1.74 Black 6 0.6 UL, CSA 5.75 4.49 3.99 3.49 1.00875 1 0.009656					Just strip and tin (w/ right angle conn.)	2.21	1.45	1.18	Black	, 6'	0.4	UL	3.95	3.49	2.95	2.25
149685 1709400 9 VIDC 400 mA 25 mm x 5 5 mm femule 2 2.58 2.00 2.00 Black 6° 0.6 UL, CSA 4.95 4.48 3.95 3.45	133891	359300C	9 VDC	300 mA	2.1 mm x 5.5 mm female 2	2.00	1.50	1.50	Black	6'	0.4	UL, CSA	4.95	4.25	3.75	3.25
1985 1985	137331	N4120	9 VDC	400 mA	2.1 mm x 5.5 mm right angle female 2	2.40	1.92	1.66	White	6'	0.6	UL	4.95	4.49	3.95	2.95
133772 SAGSONG 9 VDC 500 mA 2.1 mm x 5.5 mm female 2 2.45 1.90 2.00 Black 6° 0.7 20VACSONF (EUR) 3.95 3.49 3.95 3.49 100175 DOSONGHS 9 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.50 1.90 1.75 Black 6° 0.6 UL, CSA 5.25 4.49 3.95 3.49 3.	140636	41D9400	9 VDC	400 mA	2.5 mm x 5.5 mm female 2	2.58	2.00	2.00	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
1956 1902 1907	100853	DC905F1★	9 VDC	500 mA	2.1 mm x 5.5 mm female 2	2.50	1.90	1.74	Black	6'	0.6	UL, CSA	5.25	4.49	3.95	3.55
190175 DC906F5	133727	SA9500G	9 VDC	500 mA	2.1 mm x 5.5 mm female 2	2.45	1.90	2.20	Black	6'	0.7	220VAC/50Hz (Euro)			Cleseout	
193796 PAG1200 9 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.70 2.27 1.90 Black 6′ 1.0 UL, CSA 9.95 8.95 7.25 5.95	15561	DC905M3★	9 VDC	500 mA	3.5 mm male 2	2.50	1.95		Black		0.6		5.25			
	100175	DC906F5★	9 VDC	600 mA	2.5 mm x 5.5 mm female 2		_		Black							
12580 DV91A 9 VDC 1000 mA 2.5 mm x5.5 mm female 2	130796	PAG1200		1000 mA												
15858 DC910M3				 												
143665 500273 9 VDC	32			-												
143865 DC915F1						-										
148766 DG915F5 9 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.25 2.50 2.25 Black 6 · 4 · 1.3 UL, CSA 11.95 10.95 9.95 8.95 14876 DG915F3				1												
143706 DG915M3 9 VDC 1500 mA 3.5 mm male 2 3.25 2.50 2.25 Black 6 - 4* 1.5 UL, CSA 11.95 10.95 9.95 8.95 1001124 KXAD9 12 VDC 200 mA 2.1 mm x 5.5 mm fight angle female 1 2.36 2.15 1.63 Dark Gray 6* 0.6 UL, CSA 3.95 3.49 2.95 2.55 1.00095 DG1202F1 12 VDC 200 mA 2.1 mm x 5.5 mm female 2 2.14 1.82 1.49 Black 6* 0.7 UL, CSA 4.25 3.75 3.35 2.95 129707 ADVITOR OF A 1.25 mm female 2 2.20 1.70 1.50 Ulght Gray 6* 0.4 UL, CSA 4.25 3.75 3.35 2.95 129707 ADVITOR OF A 1.25 mm female 2 2.20 1.70 1.50 Ulght Gray 6* 0.4 UL, CSA 4.25 3.75 3.35 2.95 129707 ADVITOR OF A 1.25 mm female 2 2.20 1.70 1.50 Ulght Gray 6* 0.4 UL, CSA 4.25 3.75 3.35 2.95 1.4229 48-12-400DR 12 VDC 300 mA 2.1 mm x 5.5 mm female 2 2.20 1.70 1.50 Ulght Gray 6* 0.4 UL, CSA 4.25 3.75 3.35 2.95 1.4229 48-12-400DR 12 VDC 500 mA 2.1 mm x 5.5 mm female 2 2.60 1.80 1.60 Black 6* 0.7 UL 4.95 3.95 3.49 3.15 3.25								_	1							
100124 KXA10	8.															
1010124 KXAO9 12 VDC 200 mA 2.1 mm x 5.5 mm right angle female 1 2.38 2.15 1.63 Dark Gray 6° 0.6 UL, CSA 3.95 3.49 2.95 2.65 100095 DC1202F1 12 VDC 200 mA 2.1 mm x 5.5 mm female 2 2.20 1.70 1.50 Ught Gray 6° 0.4 UL, CSA 4.25 3.75 3.35 2.95 12976 AC1730 12 VDC 300 mA 2.1 mm x 5.5 mm female 2 2.20 1.70 1.50 Ught Gray 6° 0.4 UL, CSA 4.25 3.75 3.35 2.95 12976 AC1730 12 VDC 300 mA 2.1 mm x 5.5 mm female 2 2.20 1.70 1.50 Ught Gray 6° 0.6 UL 4.95 3.95 3.49 3.15 142295 48-12-400DR 12 VDC 500 mA Palin-just strip and tin 2.60 2.50 1.63 Black 6° 0.6 UL 4.95 3.95 3.49 3.25 13293 0M1250A 12 VDC 500 mA 1.3 mm x 3.5 mm female 1 2.60 2.50 1.63 Black 6° 0.6 UL, CSA 4.25 3.75 3.35 3.49 3.25 13293 0M1250A 12 VDC 500 mA 2.1 mm x 5.5 mm female 1 2.50 1.90 1.57 Black 6° 0.6 UL, CSA 5.49 4.95 4.49 3.95 3.49 3.55 133303 AD1250 12 VDC 500 mA 2.1 mm x 5.5 mm female 2 2.50 1.90 1.57 Black 6° 0.6 UL, CSA 3.95 3.49 2.95 3.49 3.95 3.49 3.55 3.3	35				The second secon					F		The state of the s				
10095 DC1202F1 12 VDC 200 mA 2.1 mm x 5.5 mm female 2 2.14 1.82 1.49 Black 6' 0.7 UL, CSA 4.25 3.75 3.35 2.95 129322 DV1220DC 12 VDC 200 mA 2.1 mm x 5.5 mm female 2 2.20 1.70 1.50 Light Gray 6' 0.4 UL, CSA 4.25 3.75 3.35 2.95 12976 Activate Acti				1							-					
129322 DV122DDC 12 VDC 200 mA 2.5 mm x5.5 mm right angle female 2 2.20 1.70 1.50 Light Gray 6 0.4 UL, CSA 4.25 3.75 3.35 2.95 12976 AC1730 12 VDC 300 mA 2.1 mm x5.5 mm female 2 2.60 1.80 1.60 Black 6 0.7 UL 4.95 3.95 3.49 3.15 3.15 3.49 3.15 3.49 3.15 3.49 3.15 3.49 3.15 3.1				1								the same of the sa				
127976 AC1730 12 VDC 300 mA 2.1 mm x 5.5 mm female 2 2.60 1.80 1.60 Black 6' 0.7 UL 4.95 3.95 3.49 3.15				 			_									
142295 48-12-400DR 12 VDC 500 mA								_								
114825 OM1250 12 VDC S00 mA Plain-just strip and tim 2.60 2.50 1.63 Black 6' 0.6 UL SALE 3.95 3.49 3.25																
132943 OM1250A 12 VDC 500 mA 1.3 mm x 3.8 mm female 1 2.60 2.50 1.63 Black 6' 0.6 120VAC or 220VAC 5.25 4.75 4.25 3.49 15368 DC1205F11 12 VDC 500 mA 2.1 mm x 5.5 mm female 1 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.49 3.95 102496 DC1205F12 12 VDC 500 mA 2.1 mm x 5.5 mm fight angle female 2 2.50 1.90 1.74 Off White 6' 0.6 UL, CSA 3.95 3.49 2.95 2.49 133735 A412056 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 2.20 2.70 Black 6' 1.0 220VAC/50Hz (Euro) 5.49 4.95 4.29 3.25 145672 KXA11-6 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 2.50 1.91 1.66 Black 6' 0.6 UL, CSA 4.95 4.49 3.95 4.29 3.25 4.25		-														
15368 DC1205F11 12 VDC 500 mA 2.1 mm x 5.5 mm female 1 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.49 3.95 102496 DC1205F12★ 12 VDC 500 mA 2.1 mm x 5.5 mm female 2 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.49 3.95 131300 AD1250 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 2.60 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.49 3.95 143731 Ad12050 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 3.20 2.20 2.70 Black 6' 1.0 220VAC/50Hz (Euro) 5.49 4.95 4.49 3.95 145672 KXA11-G 12 VDC 500 mA 2.1 mm x 5.5 mm fight angle female 1 2.50 1.91 1.66 Black 6' 0.6 UL, CSA 4.95 4.49 3.95 3.49 192277 SPPS-172★ 12 VDC 500 mA 2.5 mm x 5.5 mm female 2 2.50 2.08 1.68 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17267 DC1205M3★ 12 VDC 500 mA 3.5 mm male 2 2.50 2.08 1.68 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17267 DC1205M3★ 12 VDC 500 mA 2.1 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17267 DC1205M3★ 12 VDC 500 mA 2.5 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 7' 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121323 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 7' 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 136565 M8DJ1 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 7.95 6.95 5.49 4.95 136565 M8DJ1 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 13689 DC1210FT 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 13689 DC1210FT 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 13689 DC1215FT 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1		-					_			6'	0.6	120VAC or 220VAC	5.25	4.75	4.25	3.49
131300 AD1250 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 2.60 1.90 1.74 0ff White 6' 0.6 UL, CSA 3.95 3.49 2.95 2.49 133735 A412056 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 2.50 1.91 1.66 Black 6' 1.0 220VAC/50Hz (Euro) 5.49 4.95 4.29 3.25 145672 KXA11-G 12 VDC 500 mA 2.5 mm x 5.5 mm female 2 2.50 2.08 1.66 Black 6' 0.6 UL, CSA 4.95 4.49 3.95 3.49 17267 DC1205M3★ 12 VDC 500 mA 2.5 mm x 5.5 mm female 2 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17267 DC1205M3★ 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 129331 48D12-800 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232 DV1280 12 VDC 1000 mA Plain-just strip and tin (desktop) 4.72 2.20 1.90 Black 6' 6.6 DL, CSA 6.95 5.95 5.49 4.95 136565 M48DJ1 12 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 105478 DC1210F5 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 13892 DC1210M3★ 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 13892 DC1215F5 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.5 UL, CSA 9.95 8.95 7.95 6.95 13898 DC1215F3 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 UL, CSA 9.95 8.95 7.95 6.95 13898 DC1215F3 12 VDC 1500 mA 2.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 UL, CSA 9.95 8.95 7.95 6.95 136889 DC1215M3				500 mA		2.50	1.90	1.57	Black	6'	0.6	UL, CSA	5.49	4.95	4.49	3.95
133735 A412056 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 2 3.20 2.70 Black 6' 1.0 220VAC/50Hz (Euro) 5.49 4.95 4.29 3.25 145672 XXA11-G 12 VDC 500 mA 2.1 mm x 5.5 mm female 1 2.50 1.91 1.66 Black 6' 0.6 UL, CSA 4.95 4.49 3.95 3.49 102277 SPPS-172★ 12 VDC 500 mA 2.5 mm refmale 2 2.50 1.08 1.68 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17747 5600T 12 VDC 800 mA 2.5 mm remale 2 2.57 2.40 1.95 Black 6' 0.6 UL, CSA 6.95 5.95 5.49 4.95 12931 48D12-800 12 VDC 800 mA 2.5 mm remale 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 12931 48D12-800	102496	DC1205F12★	12 VDC	500 mA	2.1 mm x 5.5 mm female 2	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	5.49	4.95	4.49	3.95
145672 KXA11-G 12 VDC 500 mA 2.1 mm x 5.5 mm right angle female 1 2.50 1.91 1.66 Black 6'5" 0.6 UL, CSA 4.95 4.49 3.95 3.49 102277 SPPS-172 ★ 12 VDC 500 mA 2.5 mm x 5.5 mm female 2 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17267 DC1205M3 ★ 12 VDC 800 mA 2.1 mm x 5.5 mm female 2 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 117479 5600T 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 129321 Black 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232	131300	AD1250	12 VDC	500 mA	2.1 mm x 5.5 mm right angle female 2	2.60	1.90	1.74	Off White	6'	0.6	UL, CSA	3.95	3.49	2.95	2.49
102277 SPPS-172★ 12 VDC 500 mA 2.5 mm x 5.5 mm female 2 2.50 2.08 1.68 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 17267 DC1205M3★ 12 VDC 500 mA 3.5 mm male 2 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 117479 5600T 12 VDC 800 mA 2.1 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 7' 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 129331 48D12-800 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 7' 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 7' 4' 0.9 UL, CSA 6.95 5.95 5.49 4.95 136565 M48DJ1 12 VDC 1000 mA Plain-just strip and tin (desktop) 4.72 2.20 1.90 Black 6' AC -6 DC 1.2 UL, CSA 7.95 6.95 6.95 6.95 105478 DC1210F1★ 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1000 mA 2.5 mm male 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215F5★ 12 VDC 1500 mA Plain-strip and tin (desktop) 3.13 2.13 1.87 Black 6' 1.5 — 10.95 9.95 8.95 7.95 6.95 140880 DC1215F5★ 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1	133735	A41205G	12 VDC	500 mA	2.1 mm x 5.5 mm right angle female 2	3.20	2.20	2.70	Black	6'	1.0	220VAC/50Hz (Euro)	5.49	4.95	4.29	3.25
17267 DC1205M3★ 12 VDC 500 mA 3.5 mm male 2 2.50 1.90 1.57 Black 6' 0.6 UL, CSA 5.49 4.95 4.29 3.89 117479 5600T 12 VDC 800 mA 2.1 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 7' 6" 0.9 UL, CSA 6.95 5.95 5.49 4.95 129331 48D12-800 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 7' 4" 0.9 UL, CSA 6.95 5.95 5.49 4.95 100870 DC1210F1★ 12 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 105478 DC1210M3★ 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97																
117479 5600T 12 VDC 800 mA 2.1 mm x 5.5 mm female 2 2.57 2.40 1.95 Black 7' 6* 0.9 UL, CSA 6.95 5.95 5.49 4.95 129331 48D12-800 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 3.24 2.24 1.86 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 7' 4" 0.9 UL, CSA 6.95 5.95 5.49 4.95 136565 M48DJ1 12 VDC 1000 mA Plain-just strip and tin (desktop) 4.72 2.20 1.90 Black 6' AC - 6' DC 1.2 UL, CSA 7.95 6.95 6.25 5.25 100870 DC1210F1 ** 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 15392 DC1210M3 ** 12 VDC 1000 mA 3.5 mm male 2 2.58 2.39 <td>102277</td> <td>SPPS-172★</td> <td>12 VDC</td> <td>500 mA</td> <td>2.5 mm x 5.5 mm female 2</td> <td>2.50</td> <td>2.08</td> <td>1.68</td> <td>Black</td> <td>6'</td> <td>0.6</td> <td></td> <td>5.49</td> <td>4.95</td> <td>4.29</td> <td>3.89</td>	102277	SPPS-172★	12 VDC	500 mA	2.5 mm x 5.5 mm female 2	2.50	2.08	1.68	Black	6'	0.6		5.49	4.95	4.29	3.89
129331 48D12-800 12 VDC 800 mA 2.5 mm x 5.5 mm female 2 3.24 2.24 1.86 Black 6' 0.9 UL, CSA 6.95 5.95 5.49 4.95 121232 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 7' 4" 0.9 UL, CSA 6.95 5.95 5.49 4.95 136565 M48DJ1 12 VDC 1000 mA Plain-just strip and tin (desktop) 4.72 2.20 1.90 Black 6' AC - 6' DC 1.2 UL, CSA 7.95 6.95 6.25 5.25 100870 DC1210F1 ★ 12 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 15392 DC1210M3 ★ 12 VDC 1000 mA 3.5 mm male 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 3.40 2.70 <td>17267</td> <td>DC1205M3★</td> <td>12 VDC</td> <td>500 mA</td> <td>3.5 mm male 2</td> <td>2.50</td> <td>1.90</td> <td>1.57</td> <td>Black</td> <td>6'</td> <td>0.6</td> <td></td> <td>5.49</td> <td>4.95</td> <td>4.29</td> <td></td>	17267	DC1205M3★	12 VDC	500 mA	3.5 mm male 2	2.50	1.90	1.57	Black	6'	0.6		5.49	4.95	4.29	
121232 DV1280 12 VDC 800 mA 3.5 mm male 2 2.57 2.40 1.95 Black 7' 4' 0.9 UL, CSA 6.95 5.95 5.49 4.95 136565 M48DJ1 12 VDC 1000 mA Plain-just strip and tin (desktop) 4.72 2.20 1.90 Black 6' AC - 6' DC 1.2 UL, CSA 7.95 6.95 6.25 5.25 100870 DC1210F1 ★ 12 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 105478 DC1210F5 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1500 mA 3.5 mm male 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 101291 DC1215F5 ★ 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.25 136899 DC1215M3 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 143714 DC1220F1 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143721 DC1220M3 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 1.9 — 13.95 12.95 11.95 10.95 12																
136565 M48DJ1 12 VDC 1000 mA Plain-just strip and tin (desktop) 4.72 2.20 1.90 Black 6' AC - 6' DC 1.2 UL, CSA 7.95 6.95 6.25 5.25 10870 DC1210F1 ★ 12 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 105478 DC1210F5 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 15392 DC1210M3 ★ 12 VDC 1000 mA 3.5 mm male 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 101291 DC1215F5★ 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2			1			-										
100870 DC1210F1★ 12 VDC 1000 mA 2.1 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.2 UL, CSA 9.95 8.95 7.95 6.95 105478 DC1210F5 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 15392 DC1210M3★ 12 VDC 1000 mA 3.5 mm male 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1500 mA Plain-strip and tin (desktop) 3.13 2.13 1.87 Black 6' 1.5 — 10.95 9.95 8.95 7.95 6.95 140880 DC1215FT 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 101291 DC1215F5★ 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2																
105478 DC1210F5 12 VDC 1000 mA 2.5 mm x 5.5 mm female 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 15392 DC1210M3 ★ 12 VDC 1000 mA 3.5 mm male 2 2.58 2.39 1.97 Black 6' 1.0 UL, CSA 9.95 8.95 7.95 6.95 140880 DC1215ST 12 VDC 1500 mA Plain-strip and tin (desktop) 3.13 2.13 1.87 Black 6' 1.5 — 10.95 9.95 8.95 7.95 6.95 136881 DC1215FT 12 VDC 1500 mA 2.1 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 101291 DC1215F5★ 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 143714 DC1220F1 12 VDC 2000 mA 2.1 mm x 5.5 mm female 2 (desktop) 3.75	88		1													
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101291 DC1215F5★ 12 VDC 1500 mA 2.5 mm x 5.5 mm female 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.25 136899 DC1215M3 12 VDC 1500 mA 3.5 mm male 2 3.40 2.70 2.20 Black 6' 1.5 — 11.95 10.95 9.95 8.95 143714 DC1220F1 12 VDC 2000 mA 2.1 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143721 DC1220F5 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 3.5 mm male 2 (desktop) 3.75 2.75 2.25 Black 6' 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 3.5 mm x5.5 mm right angle female																
136899 DC1215M3 12 VDC 1500 mA 3.5 mm male 2 3.40 2.70 2.20 Black 6 1.5 — 11.95 10.95 8.95 143714 DC1220F1 12 VDC 2000 mA 2.1 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6 4*DC 2.2 — 13.95 12.95 11.95 10.95 143722 DC1220F5 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6 4*DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 3.5 mm male 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6 4*DC 1.9 — 13.95 12.95 11.95 10.95 12.95 11.95 10.95 12.95 11.95 10.95 12.95 11.95 12.95 12.95 11.95 12.95 1			1						•							
43714 DC1220F1 12 VDC 2000 mA 2.1 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6*4*DC 2.2 — 13.95 12.95 11.95 10.95 143722 DC1220F5 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6*4*DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 3.5 mm male 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6*4*DC 1.9 — 13.95 12.95 11.95 10.95 129314 DV1250 14 VDC 360 mA 2.5 mm x 5.5 mm right angle female 2 2.34 1.98 1.60 Black 6* 0.6 UL, CSA 3.95 3.49 2.95 2.65	2			1		_		_								
143722 DC1220F5 12 VDC 2000 mA 2.5 mm x 5.5 mm female 2 (desktop) 3.75 2.75 2.25 Black 6 4'AC-6' 4'DC 2.2 — 13.95 12.95 11.95 10.95 143731 DC1220M3 12 VDC 2000 mA 3.5 mm male 2 (desktop) 3.75 2.75 2.25 Black 6 4'AC-6' 4'DC 1.9 — 13.95 12.95 11.95 10.95 129314 DV1250 14 VDC 360 mA 2.5 mm x 5.5 mm right angle female 2 2.34 1.98 1.60 Black 6' 0.6 UL, CSA 3.95 3.49 2.95 2.65	-		1	+												
143731 DC1220M3 12 VDC 2000 mA 3.5 mm male 2 (desktop) 3.75 2.75 2.25 Black 6 4*AC-6*4*DC 1.9 — 13.95 12.95 11.95 10.95 129314 DV1250 14 VDC 360 mA 2.5 mm x 5.5 mm right angle female 2 2.34 1.98 1.60 Black 6* 0.6 UL, CSA 3.95 3.49 2.95 2.65	20															
129314 DV1250 14 VDC 360 mA 2.5 mm x 5.5 mm right angle female 2 2.34 1.98 1.60 Black 6' 0.6 UL, CSA 3.95 3.49 2.95 2.65	2															
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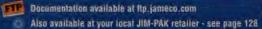
123932 DC1407F1



700 mA 2.1 mm x 5.5 mm female 2



2.58 2.39 1.97





															ALC: NO
	Polarity 1 (+)	-C-Θ	(center neg	jative) We specialize in Wa	II Tran	sforme	ers – ca	ill for larg	e OEM pricing.		Polarity 2 — (center positive)				
Part	Product	Output	t Rating	Output Plug / Polarity	Dime	ension	s (in.)	Case	Cord	Wt.	UL Listed		Pric	ing	
Number	Number	Voltage	Current	ID x OD (mm) Plug Type	Н	W	D	Color	Length (ft.)	(lbs.)	CSA/CUL Approved	1-9	10-49	50-99	100+
130761	2682950	15 VDC	200 mA	2.5 mm x 5.5 mm female 2	2.72	2.10	1.72	Black	6'	0.9	UL, CSA	\$5.49	\$4.95	\$4.49	\$3.95
102285	DC2404F1★	24 VDC	400 mA	2.1 mm x 5.5 mm female 2	3.00	2.30	2.00	Black	6'	0.9	UL, CUL	8.95	7.75	6.95	6.25
139088	DC2405M3	24 VDC	500 mA	3.5 mm male 2	3.12	2.34	1.90	Black	6'	1.0	UL, CUL	9.95	8.95	7.95	6.95
139096	DC2412F1	24 VDC	1200 mA	2.1 mm x 5.5 mm female 2 (desktop)	2.60	3.10	4.40	Black	6.2'	2.5	************	13.95	12.95	11.95	10.95
117321	DC2412F5	24 VDC	1200 mA	2.5 mm x 5.5 mm female 2	3.84	3.01	2.56	Black	6'	2.0		13.95	12.95	11.95	10.95
121241	DC2412M3	24 VDC	1200 mA	3.5 mm male 2	3.37	2.70	2.22	Black	6'	2.0		13.95	12.95	11.95	10.95

AC Wall Transformers, Plugs and Jacks

											- 142 700000				
Part	Product		t Rating	Output Plug / Polarity	Dime	nsions	(in.)	Case	Cord	Wt.	UL Listed		Pric		
Number	Number	Voltage	Current	ID x OD (mm) Plug Type	Н	W	D	Color	Length (ft.)	(lbs.)	CSA/CUL Approved	1-9	10-49	50-99	100+
114665	AC505M3	5 VAC	500 mA	3.5 mm male	2.41	1.73	1.64	Black	6'	0.4	UL				\$.99
114657	A410510	5 VAC	1000 mA	3.5 mm male	2.58	1.95	1.73	Black	6'	0.5	UL			Closeout	1.25
101127	DFX10096B	7 VAC	1500 mA	2.5 mm x 5.5 mm female	1.88	2.20	1.95	Black	7' 6"	0.8	UL, CSA	4.49	3.95	3.49	2.75
10129	AC905M3	9 VAC	500 mA	3.5 mm male	2.55	1.95	1.71	Black	6'	0.5	UL, CUL	4.95	4.49	3.95	3.49
100061	AC905F1★	9 VAC	500 mA	2.1 mm x 5.5 mm female	2.35	1.95	1.56	Black	6' 6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
114577	AC905F5	9 VAC	500 mA	2.5 mm x 5.5 mm female	2.46	1.92	1.60	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
119204	A41090800	9 VAC	800 mA	2.1 mm x 5.5 mm female	2.55	1.91	1.74	Black	6'	0.6	UL	5.25	4.75	4.25	3.25
120141	AC908M3	9 VAC	800 mA	3.5 mm male	2.55	1.91	1.74	Black	6'	0.5	UL	5.25	4.75	4.25	3.25
102234	AC910F1★	9 VAC	1000 mA	2.1 mm x 5.5 mm female	3.20	2.24	1.93	Black	6'	0.6	UL, CSA	5.49	4.95	4.49	3.95
112336	AC915F5	9 VAC	1500 mA	2.5 mm x 5.5 mm female	2.50	2.20	1.96	Black	6'	0.9	UL	8.95	7.95	7.25	6.49
100132	WP572410	10 VAC	2400 mA	Striped and tinned *A	3.35	2.56	2.16	Black	5' 8"	1.3	UL	4.95	4.49	3.95	3.25
101258	AC1205F1	12 VAC	500 mA	2.1 mm x 5.5 mm female	2.76	1.97	1.60	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.25
10073	AC1205M3	12 VAC	500 mA	3.5 mm male	2.76	1.97	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
10081	AC1210F1★	12 VAC	1000 mA	2.1 mm x 5.5 mm female	2.56	2.39	1.99	Black	6'	0.7	UL, CSA	5.49	4.95	4.49	3.75
100167	AA-121A	12 VAC	1000 mA	2.5 mm x 5.5 mm female	3.20	2.41	2.00	Black	6'	1.0	UL, CSA	5.49	4.95	4.49	3.95
10428	AC1210M3★	12 VAC	1000 mA	3.5 mm male	2.60	2.40	1.97	Black	6'	0.6	UL, CUL	5.49	4.95	4.49	3.95
131271	W35A14200	14 VAC	200 mA	2.5 mm x 5.5 mm female	2.40	1.70	1.64	Black	6'	0.4	UL, CSA			Cieman	1.95
100108	AC1610F1	16 VAC	1000 mA	2.1 mm x 5.5 mm female	2.50	2.35	1.95	Black	6'	0.9	UL, CSA	8.95	7.95	7.25	6.49
121216	AC1810F1	18 VAC	1000 mA	2.1 mm x 5.5 mm female	3.11	2.36	1.85	Black	6'	1.1	UL, CUL	8.95	7.95	7.25	6.49
104150	38H3	24 VACT	300 mA	4-#6 screw terminals *†∆	1.89	2.20	1.96	Black	No cord	0.7	UL			2	.99
107385	AC2404ST	24 VAC	400 mA	Stripped and tinned * A	3.00	2.00	1.87	Black	6'	0.6	UL, CUL				3.49
87581	JA1-H501★	24 VAC	500 mA	2.1 mm x 5.5 mm female	3.28	2.19	1.72	Black	6'	0.9	Motorola	4.95	4.49	3.95	3.25
102269	WP572024	24 VAC	830 mA	2.1 mm x 5.5 mm female	3.25	2.06	3.06	Black	6'	1.2	UL .			Closeout	4.95
140599	AC2410F1	24 VAC	1000 mA	2.1 mm x 5.5 mm female	3.80	2.24	1.88	Black	6'	1.2	UL, CSA	9.95	8.49	7.25	6.49
10102	AC2410M3★	24 VAC	1000 mA	3.5 mm male	3.37	2.70	2.20	Black	6'	1.2	UL, CSA	9.95	8.49	7.25	6.49
		* Power	nlune and i	acks (see below) + 24 AWG 2	condu	etor no	wer ca	hle (na 51) A Inqui	ated s	olderless terminals	(nn 40)			

Power Jacks

- Use with AC/DC wall transformers
- Some connections do not include nuts

• Use with mating power plug found in table below · Dimensions do not include barrel · Weight: .01 lbs.



















Code Mounting Coc C Panel & PCB E Terminals Code Mounting Solder eyelet A Panel
PC board B PCB

Part Number	Product Number	Description (Jack)	H x W x D (mm)	Type/ Mounting	Cir/ Terminals	Mating Plug (above)	1-9	10-99	100-499
145648	PJ0351	3.5 mm female	9.7 x 10.0 x 15.5	9D	2A	3.5 mm male	\$.39	\$.29	\$.25
101143	PJ0352	3.5 mm female	10.0 x 10.0 x 18.5	3E	2A	3.5 mm male	.39	.29	.25
137664	PJ0353	3.5 mm female	10.0 x 9.0 x 16.5	7E	2A	3.5 mm male	.39	.29	.19
109495	PJ035PM	3.5 mm female	10.5 x 9.0 x 8.8	4C	2A	3.5 mm male	.39	.29	.25
101194	PP024	1.3 mm male	6.0 x 6.0 x 9.0	1D	1B	1.3 mm female	.45	.35	.29
109508	PJ021PCB	2.1 mm male	9.0 x 12.7 x 15.8	5D	1A	2.1 mm female		Closeout	.05
101178	PP014	2.1 mm male	10.9 x 9.0 x 14.5	1D	1A	2.1 mm female	.45	.35	.29
137672	PP013	2.1 mm male	10.9 x 9.0 x 14.5	8D	3A .	2.1 mm female	.39	.29	.25
102082	PP015	2.1 mm male	20.0 x 8.8 x 12.6	2C	1A	2.1 mm female	.45	.35	.29
109428	PJ025PCB	2.5 mm male	8.0 x 12.0 x 9.6	5D	1A	2.5 mm female		Closeout	.05
115932	PJ125PCB	2.5 mm male	10.9 x 8.9 x 13.5	6D	1B	2.5 mm female		Closeont	.10
101186	PP014A	2.5 mm male	11.0 x 9.0 x 14.5	1D	1A	2.5 mm female	.45	.35	.29
102091	PP15A	2.5 mm male	20.4 x 9.3 x 11.7	2C	1A	2.5 mm female	.45	.35	.19

Power Plugs and Adapters

Use 24 AWG 2 conductor wire, P/N 100280, to make custom length power cables (pg 51)
 Shield crimp tabs

Part No.	Product No.	Description (Plug)	L x D x S (mm)	Туре	1-9	10-99	100-499
28759	PP049	2.1 mm x 5.5 mm female (P205) plug	41.5 x 9.7 x 9.3	1A	\$.55	\$.45	\$.29
28767	PP109	2.5 mm x 5.5 mm female (P206) plug	29.0 x 8.2 x 9.5	1A	.55	.45	.29
71191	PP137	1.3 mm x 3.5 mm female plug	32.3 x 7.8 x 9.6	1A	.59	.49	.35
101135	PJ1025	2.5 mm male (P201) plug	34.6 x 8.0 x 11.5	2A	.49	.39	.29
101151	PJ1035	3.5 mm male (P202) plug	39.9 x 10.2 x 14.3	2A	.55	.45	.35
138587	PJ021R	2.1 mm x 5.5 mm female right angle plug	22.5 x 11.5 x 12.0	18	.89	.75	.59
138595	PJ025R	2.5 mm x 5.5 mm female right angle plug	22.5 x 11.5 x 12.0	1B	.89	.75	.59

- · Use with mating power jack found in table above
- · Use with AC/DC wall transformers (above & opposite page)
- Solder eyelets 1mm diameter

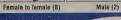






AMECO

Strain Relief (A)



DC Wall Transformers, Linear Power Supplies and Accessories

Jameco 6 Watt Wall Transformer

- Input voltage 115VAC @ 60Hz
- Input connector: standard 2 prong AC wall connector
- · Output connectors: 2.5mm x 14mm male, 3.5mm x 15.5mm male.

2.1mm x 5mm female, 2.5mm x 5.5mm female and 9V battery snap (5-way)

· UL approved

Size: 2.3"L x 2.0"W x 2.9"H

· Weight: 0.6 lbs.

Part No. Product No. 1-9 10-49 15309 * DCM05 (stock item) \$7.95 \$6.95 \$5.95

Selectable Output:

+3VDC @ 500mA

+4.5VDC @ 500mA +6VDC @ 500mA

+7.5VDC @ 500mA +9VDC @ 500mA

+12VDC @ 500mA

Selectable Output:

+1.5VDC @ 1000mA,

+3VDC @ 1000mA,

+6VDC @ 1000mA,

+4.5VDC @ 1000mA,

+7.5VDC @ 1000mA,

+9VDC @ 1000mA,

+12VDC @ 1000mA

1-9 10-49

Jameco 12 Watt Wall Transformer

- · Input voltage: 110/220VAC @ 50/60Hz
- · Input connector: standard 2 prong AC wall connector
- · Output connectors: 2.5mm female, 2.1mm female, 1.5mm female, 3.5mm male, 2.5mm male and 9V battery snap
- Size: 2.5"L x 2.4"W x 3.7"H
- · Weight: 1.2 lbs.

Part No. Product No. 123158 DCM10 (stock item)

\$9.95 \$8.95 \$7.95

13.8VDC Precision Regulated Linear Power Supplies

Output terminal: binding post/plug (P/N 138667 connectors in rear) – see pg 60 for plugs
 Input voltage: 115VAC @ 60Hz

Fuse protected • Short-circuit protection

May require fan cooling if operated continuously at a significant current

Heavy duty 3-pronged 5' power cord





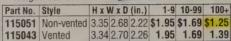


۱	Part No.	Description	Continuous Current	Surge Current	Size (L x W x H)	Weight (lbs.)	1-9	10-24
ı	135845	Linear power supply	4A	6A	6.7" x 5.2" x 3.2"	5.5	\$29.95	\$26.95
ı	136581	W/ overheating protection	7A	10A	8.7" x 5.7" x 3.6"	8.5	49.95	44.95
ı	138667	Linear power supply	10A	12A	7.0" x 6.6" x 4.3"	10.0	69.95	62.95
ı	138675	Linear power supply	20A	22A	10.0" x 7.8" x 4.4"	15.9	119.95	107.95

Wall Transformer Enclosures

- power plug and cable strain relief 115051
- Material: norvl

· Weight: 0.2 lbs.



DC Power Cable

- · Use for CBs, radios or other DC power connection
- (2) 24" 14 gauge red and black wires
- · Polarized plug connectors
- · Plastic tubing · Wt.: 0.2 lbs. Part No. Product No. Description

\$2.25 2.95 2.95

10-24

DC power cable \$.99 141911 CBL1

Auto Power Plugs

- · Strain relief
- Screw assembly
- Plugs directly into cigarette lighter



Accepts .25" x 1.25" fuse (not included)

Part No.	Description		Wt. (lbs.)	1-99	100-999	1000+
115001	Auto plug	only	.01\$	1.19	\$.89	\$.69
124759	With fuse	& 3' lead	0.1	1.75	1.49	1.19
	4		DI C			

Auto Power Plug Splitter

- · Input: cigarette adapter; non-fused
- · Splits out into two 5' female automobile type recepticles
- · Weight: 0.2 lbs.
- Part No. Description



Auto power plug splitter \$4.49 \$3.95 \$2.95

Batteries, Holders, Snaps and Clip

Ni-Cad Batteries

Nickel-Cadmium batteries are rechargeable, sealed cells.

- · Can be used for cyclic, trickle or

101653 NA101-1 —

· IMPO	RTANT: Bat	teries must					
Tuny C	charged prio	i to use:		F	ig. 1	Fig. 2	Fi
Part No.	Product No.	Description	Fig.	Voltag	e Amps	1-9	10-24
32627	S3300	AA	1	1.2V	500mAh.	\$2.95	\$2.49
126720	351FT	2-lead	2	3.6V	50mAh.	3.95	3.49
119116	3/V60R	3-lead	2	3 6V	60mAh.	3.95	3.49

3 3.6V

PC Battery Eliminator (All IBM PC Compatibles)

60mAh.

7.95

- Eliminates clock battery (3-7.2V) on your system
- See page 97 for complete specifications

Part No. Description Output Voltage Wt. (lbs.) 1-4 11172 PC battery eliminator 4-5VDC 0.15 SALE



5-9

IAMECO Plastic Battery Holder

- Solder tabs
 Made of durable, black plastic
- WLC wire lead with connector (computer clock backup)
- Size: 2.30"L x 2.49"W x .64"H

Part	Batteries	Placement		Pricing				
Number	No./Type	of Cells	Term	1-9	10-99	100-999	1000+	
105857	4/AA	parallel (PC)	6" WLC	\$.79	\$.69	\$.59	\$.49	

Tadiran Lithium, Silver **Oxide and Alkaline Batteries**

TL5000 Series applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, and video scramblers / descramblers

146114 TL2100S | 3.6V/1.9Ah/.579" | Barrel pressure fit

TL5242W 3.6V/1.9Ah

33443 TL5293W 6.0V/1.9Ah







33443 33398

9.95

SALE

Part Number	Product Number	Description (V/Amps/Dia.)	Terminals/Connection	1-9	10-24	25-49
140783	357	1.55V/1.65Ah/.454"	Button cell (silver oxide)	\$1.79	\$1.59	\$1.25
126762	AA101-4	4.5V/2.2Ah	Battery pack w/ plug (clock/memory)	6.95	6.25	5.59
11789	BR2325	3V/165mAh/.906"	Coin cell (clock/memory)	1.95	1.75	1.59
14162	CR2032	3V/180mAh/.787"	Coin cell (clock/memory)	1.25	1.09	.99
140775	CR2320	3V/130mAh/.906"	Coin cell (clock/memory)	1.95	1.75	1.25
33371	TL5101P	3.6V/.85Ah/.579*	Barrel w/ leads (clock/memory)	5.95	5.35	4.75
126754	TL5101S	3.6V/.85Ah/.579"	Half AA (Macintosh®)	8.95	7.95	6.95
33398	TL5104P	3.6V/1.9Ah/.579"	Barrel w/ lead (clock/memory)	7.95	7.15	6.49

Coin Call Rattery Holders

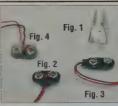
Battery pack w/ plug (PC)

Battery pack w/ plug (PC)

			Com Con Marion, monacio			
ı	Part No.	Product No.	Description	1-9	10-99	100+
ı	38543	2S2325	Battery holder for BR2325 (PC mount)	\$.99	\$.75	\$.49
ı	38535	2S2032	Battery holder for CR2032 (PC mount)	1.19	.99	.89
ы						

9 Volt Battery Snaps & Clip

- · Use with standard 9 volt batteries
- Fully insulated: contacts are nickel plated brass
- Snap: male outer diameter = 0.225"
- Leads are stripped and pre-tinned
- Leads are color coded
- Female inner diameter = 0.215"



1	Part			Dimen	sions (i	nches)		Pri	cing	
l	Number	Fig.	Description	L	xWx	H	1	10	100	1000+
l	135239	4	3", 26 AWG, 4 prong battery snap	1.0	.50		\$.25	\$.19	\$.15	\$.10
	11279*	2	3", 26 AWG, 6 prong battery snap	1.0	.50		.27	.22	.18	.16
	135221	4	6", 26 AWG, 4 prong battery snap	1.0	.50		.27	.22	.18	.11
į	109153	3	6", 26 AWG, 6 prong battery snap	1.0	.50	-	.25	.19	.15	.13
ı	101469	3	10", 26 AWG, 4 prong battery snap	1.0	.50		.29	.25	.21	.15
ĺ	105793	1	Battery holder clip (9 volt)	.63	.71	1.2	.19	.15	.12	.08
					_		_			



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less



7.95

9.95

8.95

10.95

Enclosed Power Supplies

Mean Well Authorized Distributor Mean Well is an ISO-9001 Certified Company

High efficiency
 Low output ripple
 100% burn-in
 Short circuit, overload over voltage protected
 UL approved







123457

10-24

\$29.95

29.95

29.95

29.95

ACE

(A) CE

FTP

FIP

1-9

\$32.95

32.95

32.95

32.95





Input voltage: 100 to 240VAC

Product No.

S-25-5

S-25-12

UL/CE approved

123262 S-25-15 **123271** S-25-24

Part No.

123246

123254

123342

Weight

0.8 lbs.

0.8 lbs.

0.8 lbs.

0.8 lbs

240 Watt Single Output Switching Power Supplies

- Input voltage: 88 to 132VAC or 176 to 264VAC automatic switching
- Mating input/output connector: P/N 103587 (pg 49) spade terminal

123481

- Automatic fan controls internal temperature MTBF see table below left

UL/CSA/TUV/CE approved	• Size: 8.0"L x 3.7"W x 2.6"H
------------------------	-------------------------------

Part No.	Product No.	Watts	Output	Weight	1-9	10-24			
137630	S-240-5	200	5V @ 40A	2.5 lbs.	Closeout	\$99.95			
137648	S-240-12	216	12V @ 18A	2.5 lbs.	119.95	107.95			
137656	S-240-24	240	24V @ 10A	2.5 lbs.	119.95	107.95			
300 Watt Single Output Switching Power Supplies 📢 🙆 (E									

40 Watt Single Output Switching Power Supplies

25 Watt Single Output Switching Power Supplies

• No minimum load required • Size: 3.9"L x 3.8"W x 1.4"H

Watts

25.0

25.2

25.5

26.4

· Full input range (no changes required for 110 and 220VAC operation)

· Mating input/output connector: P/N 103587 (pg 49) spade terminal

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 and 220VAC operation)
- · Mating input/output connector: P/N 103587 (pg 49) spade terminal
- UL/TUV/CE approved
- MTBF see table below

. MTBF see table below

Output

5V @ 5.0A

12V @ 2.1A

15V @ 1.7A

24V @ 1.1A

No minimum load required
 Size: 5.1"L x 3.9"W x 1.5"H

Part No.	Product No.	Watts	Output	Weight	1-9	10-24
123289	S-40-5	40	5V @ 8.0A	1.0 lb.	\$39.95	\$35.95
123297	S-40-12	42	12V @ 3.5A	1.0 lb.	39.95	35.95
123318	S-40-24	43	24V @ 1.8A	1.0 lb.	39.95	35.95

60 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 and 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 49) spade terminal
- UL/TUV/CE approved
- MTBF see table below
- No minimum load required
 Size: 6.3"L x 3.8"W x 1.5"H

Part No.	Product No.	watts	Output	Weight	1-9	10-24
123326	S-60-5	60	5V @ 12A	1.2 lbs.	\$44.95	\$39.95
123334	S-60-12	60	12V @ 5A	1.2 lbs.	44.95	39.95
123342	S-60-15	60	15V @ 4A	1.2 lbs.	44.95	39.95
123351	S-60-24	60	24V @ 2.5A	1.1 lbs.	44.95	39.95

100 Watt Single Output Switching Power Supply

- Input voltage: 95 to 130VAC or 190 to 260VAC
- Mating input/output connector: P/N 103587 (pg 49) spade terminal
- UL/TUV/CE approved
 MTBF see table below Jumper selectable input
- No minimum load required
 Size: 7.8"L x 3.9"W x 1.5"H

Part No.	Product No.	Watts	Output	Weight	1-9	10-24
123385	S-100F-12	102	12V @ 8.5A	1.4 lbs.	\$54.95	\$49.95

150 Watt Single Output Switching Power Supplies

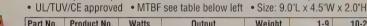
- Input voltage: 90 to 130VAC or 180 to 260VAC
- · Jumper selectable input
- · Mating input/output connector: P/N 103587 (pg 49) spade terminal . MTBF see table below
- UL/TUV/CE approved
- No minimum load required Size: 7.8"L x 4.3"W x 2.0"H

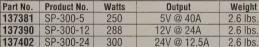
Part No.	Product No.	Watts	Output	Weight	1-9	10-24
123393	S-150-5	150	5V @ 30A	1.8 lbs.	\$59.95	\$53.95
123414	S-150-7.5	150	7.5V @ 20A	1.8 lbs.	59.95	53.95
123422	S-150-12	150	12V @ 12.5A	1.8 lbs.	59.95	53.95
123431	S-150-15	150	15V @ 10A	1.8 lbs.	59.95	53.95
123449	S-150-24	156	24V @ 6.5A	1.7 lbs.	59.95	53.95

MTBF (hours) vs Operating Temperature/Load

Models: S-25, S-40, S-60, S-100F, S-150, Models: S-240, SP-300

Operating Temp.	50°C	40°C	30°C	Operating Temp.	50°C	40°C	30°C
Load 100%	10,000	30,000	90,000	Load 100%	45,000	90,000	180,000
Load 60%	30,000	80,000	200,000	Load 60%	62,500	125,000	250,000





Mating input/output connector: P/N 103587 (pg 49) spade terminal

Over temperature protected • Automatic fan controls internal temperature

60 Watt Dual Output Switching Power Supplies

. Input voltage: 100 to 240VAC

. Input voltage: 100 to 240VAC

- · Full input range (no changes required for 110 and 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 49) spade terminal
- UL/TUV/CE approved . MTBF see table below left
- Minimum load: all outputs at 10% of rated load Size: 6.3"L x 3.8"W x 1.5"H

	Part No.	Product No.	Watts	Output	Weight	1-9	10-24
	123457	D-60A	56	5V @ 4A, 12V @ 3A	1.2 lbs.	\$49.95	\$44.95
,	123465	D-60B	58	5V @ 3A, 24V @ 1.8A	1.2 lbs.	49.95	44.95

120 Watt Dual Output Switching Power Supplies

- Input voltage: 90-130VAC or 180-260VAC
 Switch selectable input
- Mating input/output connector: P/N 103587 (pg 49) spade terminal
- . Minimum load: all outputs at 10% of rated load
- UL/CE approved
 MTBF see table below left
 Size: 8.0"L x 4.4"W x 2.0"H

Part No.	Product No.	Watts	Output	Weight	1-9	10-24
132409	D-120A	120	5V @ 12A, 12V @ 5A	1.9 lbs.	Cleanout	\$59.95
132396	D-120B	126	5V @ 6A, 24V @ 4A	1.9 lbs.	79.95	71.95

60 Watt Triple Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 and 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 49) spade terminal
- UL/TUV/CE approved . MTBF see table below left
- Minimum load: all outputs at 10% of rated load Size: 6.3"L x 3.8"W x 1.5"H

Part No.	Product No.	Watts	Output	Weight	1-9	10-24
123481	T-60B	61	5V @ 5A, 12V @ 2.5A -12V @ 0.5A	1.2 lbs.	\$49.95	\$44.95
123490	T-60C	63	5V @ 5A, 15V @ 2.0A -15V @ 0.5A	1.2 lbs.	49.95	44.95

120 Watt Quad Output Switching Power Supplies 🖼 🛆 (F

- Input voltage: 90-130VAC or 180-260VAC
 Switch selectable input
- Mating input/output connector: P/N 103587 (pg 49) spade terminal
- . Minimum load: all outputs at 10% of rated load
- UL/CE approved MTBF see table left Size: 8.0" x 4.4"W x 2.0"H

Ì	Part No.	Product No.	Watts	Output	Weight	1-9	10-24
	132388	Q-120B	120	5V @ 11A, 12V @ 4A -5V @ 1A, -12V @ 1A	1.9 lbs.	\$79.95	\$71.95
	132370	Q-120D	124	5V @ 8A, 12V @ 2A 24V @ 2A, -12V @ 1A	2.0 lbs.	79.95	71.95





Order Toll Free 1-800-831-4242





\$129.95

143.95

143.95

159.95

159.95





Schematic for

P/N 123908 & 123895

Outnut:

+9VDC @ 200mA

Valor 1.8 Watt DC to DC **Power Converters**

• Input: 5VDC (P/N 123895) 12VDC (P/N 123908)

· Isolated outputs

· Operating temp range: 0°C to 70°C

Hi Pot: 500VRS 5V OR 2V • Efficiency 65% · 24-pin use P/N 112264

socket (pg 43) • PC mount Size: 1.3"L x 0.6"W x 0.5"H

· Weight: .02 lbs. 1-9

Part No. Product No. Description 10-24 \$3.49 \$2.95 123895 PM7102 +5V 1.8 watt..\$3.95 123908 PM7104 +12V 1.8 watt..3.95

9 Watt DC to DC

Power Converter

COMPUTER* PRODUCTS

· Input voltage 5 volts DC @ 2.1A

Pl input & output filters

 Isolation voltage: 500VDC Isolation capacitance: 180pf

 Isolation resistance: 1.0MΩ · Short circuit protection

· Switching frequency: 20kHz

• Size: 2.0"L x 2.0"W x 0.5"H Output: +12VDC @ 375mA, - 12VDC @ 375mA · Weight: 0.1 lbs.

Part No. Description 116986 9 watt converter...

10-24 .\$7.95 \$7.25 \$6.49

5VDC @ 2.0A,

+12VDC @ 0.3A,

-12VDC @ 0.3A

Product No. EM951S

DELATEL 2.5 Watt DC to DC

Power Converter

· Input voltage: 12 volts DC

Isolated outputs

Efficiency 75% Product No. PC mount BWR-5/250-D12

8-pin (use socket P/N 39351 - pa 43)

• Size: 1.3"L x 0.8"W x 0.5"H Output: +5VDC @ 250mA

· Weight: 0.03 lbs.

Part No. Description 137269 2.5 watt converter.....

1-9 10-24 \$7.95 \$7.25 \$6.49

911 911

COMPUTER PRODUCTS

30 Watt DC to DC **Power Converter**

· Provides for remote sensing. and has six-sided continuous EMI/RFI shielding

• Input voltage: 18-36VDC @ 1.5A

100kHz switching regulator for up to 86% efficiency with loads as light as 25% of full load

Isolation resistance: 10GΩ

 Switching frequency: 100kHz MTBF: 200,000 hrs.

Size: 4.5"L x 2.5"W x 0.8"H Output:

· Weight: 0.5 lbs.

133057

30 watt converter

\$8.95 \$7.95

Product No WR24D12/1250U +12VDC @ 1.25A - 12VDC @ 1.25A

10-24

5VDC @ 3.0A

+12VDC @ 2.0A

-12VDC @ 0.5A

+ 5VDC @ 5.0A

+12VDC @ 1.0A,

- 5VDC @ 1.0A

-12VDC @ 1.0A

IPD 5 Watt DC to DC **Power Converter**

Input voltage: 5 volts DC

· Isolated output

Operating temp range: -25°C to +71°C

· Hi Pot: 500VDC Efficiency 64% • PC mount

Size: 2.0"L x 2.0"W x 0.4"H · Weight: 0.1 lbs

Part No. Description 5 watt converter.

124169

\$2.95 \$2.49 \$1.95 Jameco 21 Watt DC to DC Power

Converter

Input: 16VDC (max)

· Output signals for battery-low and battery-in-use
• Recharges battery

from external source

· Mating input connector for 7-pin male: P/N 103202 (pg 45) Mating input connector for 4-pin

male battery: P/N 100802 (pg 45) Mating output connector for

6-pin male: P/N 103211 (pg 45) Mating output connector for 15-pin male:

P/N 103202 (2) – pg 45 • No minimum load required
• Size: 3.6"L x 1.6"W x 0.8"H • Weight: 0.1 lbs.

Product No

AA9090A (200 in stock).....

+ 5VDC @ 4.0A

+12VDC @ 3.0A

12VDC @ 0.3A

5VDC @ 0.3A.

+ 5.1 VDC @ 3.75A

- 26 VDC @ 0.04A + 12 VDC @ 0.1A,

350 VAC @ 5mA

PDINTERNATIONAL POWER BEYERS

N FRS505S1 0

Product No. FRS505S1

Output: +5VDC @ 1000mA

1-9 10-24

See page 57 for

Power Supplies

We carry major manufacturers - call for large OEM pricing.

Skynet 17 Watt Switching 71 (1) (2) **Power Supply**

- Input voltage: 115VAC/230VAC @ 50/60Hz
- · Input auto ranging
- Mating input connector: P/N 104432 (pg 44)
- Mating output connector: P/N 104731 (pg 44)
- UL/CSA/TUV approved · Minimum load: all outputs at
- 10% of rated load
- Data sheet included • MTBF: 325,000 hrs.
- Size: 5.1"L x 2.8"W x 1.0"H
- · Weight: 0.3 lbs · One-year warranty

Product No. SDA3021 (10 in stock). \$34.95

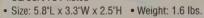
APS 40 Watt Regulated Switching Power Supply



 Input connector: 3 conductor detachable power supply

cord P/N 38050 (pg 57) Output connector:

5 pin DIN with 5'9" cord UL/CSA/TUV listed



Part No. Product No. 1-9 10-24 \$13.49 146376 APS40-ES-30 (135 in stock) \$14.95

MW 45 Watt Switching

Power Supply

- Input: 90VAC/260VAC @ 50/60Hz
- · Input auto ranging
- · Mating input connector P/N 104432 (pg 44)
- · Mating output connector: P/N 104731 (pg 44)
- Minimum load:
- all outputs at 10% of rated load
- Data sheet included Size: 5.0"L x 3.0"W x 1.6"H
- · Weight: 0.6 lbs. One-year warranty Part No. Product No.

PT4002 (stock item) \$39.95 \$35.95 \$32.95

MW 54 Watt Switching

Power Supply

- Input: 110/220VAC @ 47/63Hz
- · Line regulation: ±0.2% Ripple: 30mV
- peak-to-peak
- Load regulation: ±1%
- Stability: 0.1% after 8 hours · Overcurrent protection: 110-130%
- automatic current limiting Adjustment: 5V main output ±10%
- Mating input connector: P/N 103587 (3) (pg 49)
- Mating output connector: P/N 103587 (6) (pg 49) Minimum load: all outputs at 10% of rated load
- Data sheet included . Size: 6.3"L x 3.9"W x 1.5"H · One-year warranty · Weight: 1.3 lbs.

Part No. Product No. 1-9 10-24 17056 FCS604A (stock item)...\$44.95 \$39.95 \$35.95

- Skynet 61 Watt Switching AL @ **Power Supply** Input voltage: 115VAC/
- 230VAC @ 50/60Hz
- Input auto ranging
- · Mating input connector: P/N 104432 (pg 44)
- UL/CSA approved
- Minimum load: all outputs at 10% of rated load
- · Data sheet included
- MTBF: 300,000 hrs.
- Size: 5.0"L x 3.0"W x 1.3"H

· Weight: 0.5 lbs. · One-year warranty

Part No. Product No. 101397 SNP9F40 (stock item) \$49.95 \$44.95 \$39.95

Skynet 85 Watt Switching

Power Supply Input voltage: 115VAC/

- 230VAC @ 50/60Hz · Input auto ranging
- Fuse: 3A @ 250V (5X20mm)
- Mating input connector:
- P/N 104432 (pg 44) · Mating output connector:
- P/N 104766 (pg 44)
- UL/CSA/TUV approved . Minimum load: all outputs at 10% of rated load
- Data sheet included
 MTBF: 275,000 hrs. Size: 7.7"L x 4.3"W x 1.8"H

 Weight: 1.3 lbs. One-year warranty

Part No. Product No. 1-9



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less

Output:

+ 5VDC @ 5.0A.

+12VDC @ 1.0A

-12VDC @ 0.5A

Documentation available at ttp.jameco.com

Also available at your local JIM-PAK retailer - see page 128

+ 5VDC @ 8.0A

+12VDC @ 3.0A,

- 5VDC @ 0.5A,

- 12VDC @ 0.5A

10-24 101389 SNP3180 (stock item) \$69.95 62.95 \$54.95

Jameco 4.8 Watt Linear Wall Power Supply

Regulated Wall Transformer

Input voltage 120VAC @ 60Hz

Output voltage: +12VDC @ 400mA

 Input connector: standard 2 prong AC wall connector

 Output connector: 6' cord with 2.1mm x 5.5mm female center positive polarity

• Size: 3.0"L x 2.0"W x 1.8"H Part No. Product No.

1-9 10-49 142295 48-12-400DR (900 in stock) \$9.95 \$8.95 \$7.95

Jameco 5 Watt Linear Table-Top **Power Supply**

Input voltage: 120VAC @ 60Hz

Output voltage: +24VDC @ 1.2A

Input connector: 6.2' wire cord with 115VAC plug

Output connector: 6' wire with 2.1mm x 5.5mm male plug Size: 4.4"L x 3.1"W x 2.6"H

· Weight: 2.5 lbs.

Part No. Product No.

End View

(Male) s

00

+5VDC @ 1A

UL approved

· Weight: 0.9 lbs.

139096 DC2412F1 (stock item)..\$13.95 \$12.95 \$11.95

Atari 5 Watt Linear Table-Top **Power Supply**

Input voltage: 115VAC @ 60Hz

 Output voltage: +5VDC @ 1.0A

Input connector: 6' 2-wire cord with 115VAC plug

Output connector:
 6' wire with 7-pin DIN

· No minimum load required

• UL approved • Weight: 1.6 lbs. • Size: 3.4"L x 2.7"W x 2.3"H Pins 3, 5 & 7 = GND Pin 2 = Shield Product No.

C070042 (50 in stock)..... Clos 116089 \$9.95

Novation 6.4 Watt Linear Wall **Power Supply**

Input voltage: 120VAC @ 60Hz Output voltage: +5VDC @ 0.8A, +12VDC @ 0.1A, -12VDC @ 0.1A

Input connector: standard 3 prong AC wall connector · Output connector: 5.5' cable

with 4-pin mini DIN No minimum load required UL approved

• Size: 2.2"L x 3.1"W x 5.2"H • Weight: 1.9 lbs.

Part No. Product No. 134658 901053-1 (1600 in stock)...... SALE \$6.95

Indesys 9 Watt Linear Table-Top **Power Supply**

Input voltage 120VAC @ 50/60Hz

Output voltage:
 +5VDC @ 600mA,
 +12VDC @ 250mA,

-12VDC @ 250mA

Input connector: grounded 120VAC plug, 70" cord

Mating output connector: P/N 15843 or 29399 (pg 44) No minimum load required

 Color: black
 UL approved Size: 4.8"L x 3.1"W x 2.5"H • Weight: 2.3 lbs.

Part No. Product No. 1-9 10-24 103173 AD5126 (325 in stock) \$14.95 \$13.49 Jameco 12 Watt Linear Table-Top **Power Supply**

Input voltage: 120VAC @ 60Hz Output voltage: +12VDC @1.0A

Input connector: 2 prong, 6' cord Output connector: strip and tin

Mounting ears for wall mounting

UL/CSA approved

Size: 4.7"L x 2.2"W x 1.9"H Weight: 1.2 lbs.

Part No. Product No.

136565 M48DJ1 (1700 in stock) .. \$7.95 \$6.95 \$6.25

Keltron 15.2 Watt Linear Table-Top Power Supply

Input voltage: 115VAC @ 60Hz

Output voltage: +5VDC @ 2.0A, +12VDC @ 0.2A

Protected by 0.5A fuse Input connector:

3 pronged 6' power cord Output connector: female molex

3 conductor, 3.5' cable
Minimum load: all outputs at 10% of rated load

UL approved • Weight: 3.1 lbs.

Size: 7.0"L x 4.9"W x 2.5"H Part No. Product No.

107326 MPC2562 (2000 in stock)\$4.95 \$4.49 \$3.95

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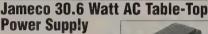
1 Black: +26VDC @ 0.2A 2 Red: + 5VDC @ 2.0A 3 White: Common

10-49

\$4.95

NEW

NEW



Input voltage 120VAC @ 60Hz

Output voltage: 9VAC @ 3.4A

Input connector: 120VAC plug, 6' cord UL/CSA approved

Mating output connector: 3 position, 2 conductor molex

No minimum load required

Size: 3.5"L x 2.6"W x 2.6"H • Weight: 2.2 lbs.

Part No. Product No.

112467 DV9034A (725 in stock)



@ 47/440Hz

Output voltage: +12VDC @ 1A. -12VDC @ 1A

· Input solder terminal selectable

Input/output connectors: solder terminal

Temperature rating: full rating – 0-50% in free air; minimum load to 40% load @ 70°C

UL/CSA approved

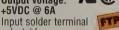
Size: 6.5"L x 4.0"W x 2.0"H • Weight: 2.4 lbs. Part No. Product No.

10-24 145269 ECV12D1 (131 in stock)\$19.95 \$17.95

ASTEC 30 Watt Linear Power Supply

Input voltage: 100/240VAC @ 47/440Hz

Output voltage: 91 (A +5VDC @ 6A



selectable Input/output connectors: solder terminal

Temperature rating: full rating – 0-50% in free air; minimum load to 40% load @ 70°C

UL/CSA approved

Size: 5.5"L x 5.0"W x 2.5"H • Weight: 6.5 lbs.

Part No. Product No. 1-9 10-24 145277 ECV5N6-1 (215 in stock) \$19.95 \$17.95



Minimum load: all outputs at 10% of rated load Molex style output connectors • UL/CSA approved

Size: 7.9"L x 3.0"W x 2.9"H · Weight: 1.2 lbs. Part No. Product No. 1-9 10-49

115094 PS706 (750 in stock) .. \$4.95 \$4.49 \$3.95

Power Switch Corp 28 Watt Switching Power Supply

 Input: 110/230VAC @ 50/60Hz

Output: +5VDC @ 4.3A, +12VDC @ 0.5A, -12VDC @ 0.1A

Input jumper selectable

Mating input connector: P/N 104432 (pg 44)

Minimum load: all outputs at 10% of rated load Size: 6.5"L x 4.0"W x 1.9"H • Weight: 1.1 lbs.

Part No. Product No.

98685 PS4030N (150 in stock)..... Close \$3.95 Computer Products 28.5 Watt 🔗 Switching Power Supply

Input: 110/240VAC @ 50/60Hz

• Output: +5VDC @ 4.0A, +12VDC @ 0.5A, -5VDC @ 0.5A

 Auto switching input voltage

Mating input connector: P/N 38050 (pg 57) Minimum load:

all outputs at 10% of rated load UL/CSA/VDE approved

Size: 6.3"L x 3.5"W x 2.0"H

· Weight: 0.9 lbs.

Part No. Product No.

114593 XL417601 (1600 in stock)... Classeau \$5.95 **Computer Products 34 Watt**



٦... 12VBC @ 24 Input: 115/230VAC @ 50/60Hz

+12VDC @ 0.5A

-5VDC @ 0.5A

- 5VDC @ 2A

Price

\$3.95

Output: +5VDC @ 2.0A, +12VDC @ 2.0A Input jumper selectable . CSA approved

Input connector is a 4-pin female molex Output connector: P/N 104715 (pg 44)

Minimum load: all outputs at 10% of rated load

Size: 10.9"L x 3.0"W x 1.7"H • Weight: 0.9 lbs.

Part No. Product No. 111966 PS70092 (375 in stock) Closs

Condor 40 Watt Switching Power Supply

 Input voltage: 85-264VAC @ 47/63Hz single phase

Output: +5VDC @ 8A

 Input auto ranging Input current: 1.3A

· Protected by 2A fuse

· Remote sense (5+, 5-) Minimum load: 0.4A

 Mating input conn.: P/N 104432 (pg 44) Mating output conn.: P/N 104731 (pg 44)

 Size: 5.0"L x 3.0"W x 1.4"H
 Weight: 0.8 lbs. Part No. Product No. 10-24

138878 GPC40-5 (650 in stock)..... .\$17.95 \$15.95



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com

IAMECO

RTN

+5VDC@3A GROUND -12VDC@.1A

91) (18)

Blue

Purpis (-12V @ 0.4A) Black (COM)

Yellow (+12V @ 1.5A)

Price

Hed (+5V)
Yellow (-5V)
Black (GND)
Black (GND)
Black (GND)
Black (GND)
Brown (-12V)
Blue (+12V)
Black (GND)
White (+5V)

Price

\$8.95

FL (F

Red (+5V @ 3.75A)

Black (COM)

Skynet 40.2 Watt **Switching**

- **Power Supply** Input: 115/230VAC
- Output voltage: +5VDC @ 3.0A +12VDC @ 2.0A, -12VDC @ 0.1A
- Input jumper selectable · Mating input connector: P/N 104432 (pg 44)
- · Mating output connector: P/N 104731 (pg 44)
- Minimum load: all outputs at 10% of rated load UL/CSA/VDE approved
 Weight: 0.4 lbs.
- Size: 5.0"L x 3.0"W x 1.0"H

Part No. Product No. 124177 SNP8171 (2700 in stock)\$14.95 \$13.49

BSR 41 Watt Switching Power Supply

Input voltage 115VAC @ 50/60Hz

 Output voltage:
 +5VDC @ 3.75A,
 +12VDC @ 1.5A, -12VDC @ 0.4A

Input connector: 3-pronged power cord receptacle - compatible with Jameco power cord 38050 (pg 57)

Minimum load: all outputs at 10% of rated load UL/CSA approved

· Mating outut connector: 7-pin connector

Size: 7.0"L x 5.3"W x 2.5"H
 Weight: 2.8 lbs

Part No. Product No. 28927 PS41012 (100 in stock).

\$7.95 **Tectrol 41 Watt Switching B** 18

Power Supply

Input voltage: 115VAC @ 50/60Hz Output voltage:

+5VDC @ 4.8A, +12VDC @ 1.1A, -5VDC @ 0.12A -12VDC @ 0.34A

Mating input connector: P/N 104432 (pg 44) · Mating output connector:

P/N 104811 (2) - pg 44 Minimum load

all outputs at 10% of rated load
• UL/CSA approved • Wt.: 0.9 lbs. Size: 7.0"L x 3.4"W x 1.8"H

Part No. Product No 28898 PS2407 (225 in stock)

Power/Mate 46.4 Watt Switching Power Supply

 Input voltage 110/220VAC @ 50/60Hz

 Output voltage:
 +5VDC @ 4.0A +12VDC @ 2.2A

· Input jumper selectable

 Mating input connector: P/N 104715 (pg 44) · Mating ouput connector:

7-pin connector · Minimum load: all outputs

at 10% of rated load

• UL/CSA approved • Wt.: 1.2 lbs. Size: 7.8"L x 4.9"W x 1.9"H

Part No. Product No. 112555 EVD65 (60 in stock) \$6.95

+12VDC @ 2.2A

ASTEC 50 Watt Switching **Power Supply**

· Input voltage 115/230VAC @ 50/60Hz

Output voltage: +5VDC @ 6.0A, +12VDC @ 2.5A, -5VDC @ 0.5A. -12VDC @ 0.5A



NEW

(UL) (SP

-30V @ 0.69A

₩G +12V @ 1.4A

-+5V @ 2.5A

Price

\$4.95

-GND

· Mating input connector: P/N 104432 (pg 44)

Mating output connector: P/N 104432/104766 (pg 44)

. Minimum load: all outputs at 10% of rated load

UL/CSA/VDE approved

Size: 8.0"L x 4.5"W x 2.5"H

· Weight: 2.0 lbs. Part No. Product No.

1-9 10-24 146843 AC9232-01 (750 in stock) ... \$24.95 \$22.49

Ault 11 Watt DC Linear Power Supply

 Input voltage: 120VAC @ 60Hz

 Input Connector: grounded 120VAC, 5' 81/2" cord

· Output voltage: +5VDC @ 1.0A ±12VDC @ 0.25A

· Output Connector:

6-pin overmolded Molex connector, 6' 6" cord Size: 5.0"L x 2.5"W x 2.3"H • Weight: 2.3 lbs.

Part No. Product No. 1-9 \$14.95 \$13.49 146860 7612-305-459E.....

Tectrol 50 Watt Switching Power Supply

Input: 100/240VAC

· Output voltage: +5VDC @ 2.5A, +12VDC @ 1.4A. -30VDC @ 0.69A

Requires power cord P/N 38050 (pg 57)

· Mating output connector: P/N 104715 - housing (2) - pg 44

· On/off rocker switch mounted on chassis case

· Minimum load: all outputs at 10% of rated load • UL/CSA/TUV approved

 Size: 8.5"L x 3.0"W x1.8"H
 Weight: 1.2 lbs. Part No. Product No.

127239 TC248 (775 in stock)

Power Switch Corp. 50 Watt

Switching Power Supply

Input: 90-264VAC @ 47-63Hz

Mating Input Connector P/N 104723 (pg 44)

· Mating Output Connector: P/N 104715 (pg 44)

 Minimum load: all outputs at 10% of rated load

UL/CSA/TUV approved

• Size: 5.0"L x 3.0"W x2.0"H · Weight: 0.7 lbs.

Part No. Product No. 146085 PV130-21 (200 in stock)

1-9\$7.95 \$6.95

+5@3A

Ground

+12@3A

Phihong 57.3 Watt Switching 🖘

Power Supply Input: 120VAC

1A @ 47-440Hz Output voltage: +5VDC @ 4.5A.

+12VDC @ 1.4A, +12VDC @ 0.3A, -12VDC @ 0.3A

Mating input connector: P/N 38050 (pg 57)

 Mating output connector: P/N 42075 (2) - pg 45

· Color: black · UL approved

. Minimum load: all outputs at 10% of rated load

Size: 6.0"L x 4.5"W x 2.9"H
 Weight: 1.6 lbs

Part No. Product No.

117313 PSA6141V (600 in stock) \$5.95

2 -12VDC

+12VD0

+12V

COM

COM

-12V

-5V @ 0.1-5A max / @ 0.2A max Ground

Total Power International 65 Watt Switching Power Supply SA SP

· Universal input, over voltage protection

 Input: 90/264VAC @ 47/63Hz

· Input auto switching

Mating output connector: P/N 104811 (2) - pg 44

Minimum load: all outputs at 10% of rated load

UL/CSA/TUV approved

Size: 5.0"L x 3.0"W x 1.3"H

· Weight: 0.9 lbs.

Part No. Product No.

145656 TPG65-21 (835 in stock)......

NEW

Solar 77 Watt Switching Power Supply

 Input: 110/220VAC @ 60Hz

 Output voltage: +5VDC @ 10A, -5VDC @ 5.0A, -12VDC @ 0.2A

· Mating input connector: P/N 104432 (pg 44)

Mating output connector: P/N 104766 (pg 44)

Minimum load: all outputs at 10% of rated load

• Size: 7.8"L x 4.3"W x 1.9"H

· Weight: 1.3 lbs.

Part No. Product No

AH5934 (260 in stock)......Closeout \$3.95

Integrated Power Design 115 Watt Switching Power Supply 51 (8)

 Universal input. short circuit protection, compact, over 15,000 hours MTBF

 Input: 85/264VAC @ 47/64Hz

Output voltage: +5VDC @ 12A. +12VDC@ 4.0A, -12VDC @ 2.0A



· Input auto switching

· Minimum load: all outputs at 10% of rated load

UL/CSA/TUV approved

• Size: 7.0"L x 4.3"W x 1.3"H • Weight: 1.3 lbs.

Part No. Product No

145664 SRW115-3001 (135 in stock)\$19.95 \$17.95



\$1,39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less

NEW

Documentation available at ttp.jameco.com Also available at your local JIM-PAK retailer - see page 128

99.7% Stock

JAMECO Electronic Kits

· Circuit designed around a

an oscillator and driver

dual op amp connected as

Siren Kit () 20 pc. Kit

\$4.75

Ultrasonic Motion Detector Kit

 2 boards: one with matched pair of ultrasonic transducers to detect motion from 4-7m away; 2nd board contains crystal con-



trolled oscillator and all circuits Switchable latch, red LED indicator

· Solder pad output to drive external relay or circuits

Requires 9V battery (not included)

 Size: Main board: 2.8"L x 2.0"W x 0.8"H Transducer board: 2.8"L x 0.6"W x 0.9"H

Weight: 0.1 lbs. for both boards

Part No. Description 1-4 5-9 125090 Ultrasonic alarm kit \$29.95 \$26.95 \$23.95

Unipolar Stepper Motor Driver Kit 🖿 Will drive unipolar stepper

motors rated at 6-30VDC @ 1.25A (or less) • Drives 5, 6 or 8 lead unipolar stepper motors

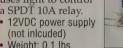


 5VDC regulator stabilizes power to the 555 clock IC Size: 2.6"L x 1.9"W x 1.0"H
 Weight: 0.1 lbs.

Part No. Description 5-9 10-24 139109 Stepper motor kit\$29.95 \$26.95 \$23.95

Light Sensitive Relay Kit

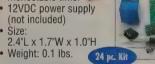
Build a stable and advanced circuit that uses light to control a SPDT 10A relay.



 Weight: 0.1 lbs. Size: 2.4"L x 1.3"W x 1.0"H 20 pc. Kit Part No. Description 136223 Light sensitive relay kit.........\$9.95

Time-out Timer Relay Kit

• Uses a 555 as a monostable timer 12VDC power supply (not included)



Part No. Description 136215 Timer relay kit......\$13.95 \$12.49 \$11.25

D.C. Motor Speed Control

 This kit uses Pulse Width Modulation to vary the speed of a DC motor with maintenance of torque For motors up to

100VDC/5A max. 5-16VDC supply (not included)

 Size: 3.6"L x 2.3"W x 1.2"H · Weight: 0.2 lbs.

Part No. Description 127829 DC motor control kit \$29.95 \$26.95 \$23.95

Electronic Ignition System

 Better starting and smoother running Lower fuel consumption

Less pollution

Lower servicing costs

 PCB dimensions: 2.8"L x 1.4"W

Weight: 0.4 lbs.

Part No. Description 5-9 10-24 120601 Ignition system......\$17.95 \$15.95 \$13.95

1 Watt Amplifier Kit

Circuit designed around a single TDA7052 IC

 Ideal part for larger projects



 Drives 8Ω speaker (not included) Ideal for battery powered circuits, operates on

3-15VDC solder pads for all connections Batteries not included

 Size: 1.3"L x 1.1"W x 0.9"H
 Weight: .04 lbs. Part No. Description 10-24 1-9

125111 1 watt amp kit\$6.95 \$5.49 \$6.25

Combination Lock Kit

· 2 boards: one with 1-9 touch pads and connected to 2nd board by 3 ft. cable; 2nd board has decoding ICs, matrix to set 4 number



· Requires 9V battery (not included)

Size: 3.0"L x 2.5"W x 1.0"H

· Weight: 0.2 lbs. for both boards Part No. Description

5-9 10-24 125129 Combination lock ... \$13.95 \$12.49 \$11.25

Keypad and Alarm Micro Controller Kit

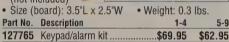
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· 3 levels of 4-digit programmable user codes for versatility in access and coding

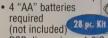


\$8.95



Telephone Pickup Kit

 Amplifies phone conversations using a sensitive pickup with a built-in suction cup





PCB dimensions: 1.6"Sq. • Weight: 0.3 lbs. Part No. Description 10-24 1-4

Tape Recorder VOX Switch Kit

· Telephone line activated and powered circuit

When handset is lifted, kit will turn on tape (cassette) recorder and supply audio

Requires recorder with "MIC" and "REMOTE" control jacks



Size: 1.9"L x 1.3"W x 0.6"H
 Weight: 0.1 lbs.

Part No. Description 125145 Low volt tape record\$10.95

17.5 Watt Bridged Amplifier Kit 🌕

 Based on the Hitachi HA13001 dual amplifier IC Drives 3-8 ohm speakers

(2 required for stereo) IC requires heatsink

(not included) 12V operation · Weight: 0.1 lbs.

Part No. Description **136207** 17.5W mono amp.\$12.95



\$11.49



 Oscillator is off until you press the switch then a rising tone is produced until a steady value is reached If switch is released the tone starts dropping until it cuts off • Requires 9V battery (not included) Size: 2.0"L x 0.8"W x 0.5"H
 Weight: 0.2 lbs. Part No. Description 125137 9V siren module......\$5.95

\$5.35 One Chip AM Radio Kit

 This kit uses a single IC that performs as an RF amp, detector and AGC in an AM radio
Requires 9VDC battery

(not included)

Size: 4.0"L x 1.3"W x 0.5"H Weight: 0.3 lbs.

Part No. Description



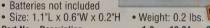
10-24

125161 AM radio......\$16.95 \$14.95 \$13.49

1-9

Train Sound Kit

Produces 4 train sounds Components supplied for operation on 3VDC (includes battery holder for 2 "AA"), but circuit will operate from 2.4-6VDC



Part No. Description 1-9 10-24 125170 4 train noises\$8.95 \$7.95

Door Chime Sound Kit • Produces 16 door

chime melodies Components supplied for operation on 3VDC (includes battery holder for 2 "AA"), but circuit will operate from

2.5-5VDC • Batteries not included

Size: 1.1"L x 0.6"W x 0.2"H
 Weight: 0.2 lbs.

Part No. Description 1-9 10-24 125188 Door chime\$8.95 \$7.95 \$6.95

Speech Recognition Circuit Kit

Includes a PCB, keypad, digital display, microphone and necessary components

Single chip voice recognition CMOS LSI

Speaker dependent External RAM support

Maximum 40 word recognition at 96 seconds word length

Minimum 20 word recognition at 1.92 seconds word length

Microphone support • Requires 9VDC battery PCB dimensions: 4.8"L x 4.4"W • Weight: 0.6 lbs.

· Keypad demensions: 2.8"L x 2.8"W

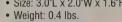
 Part No.
 Description
 1-4
 5-9

 141401
 Speech kit
 \$99.95
 \$89.95

Windshield Wiper Delay Output Delay

Allows you to control your wipers at 5, 10, or 15 second intervals. · Supply voltage: 12-15 volts at

25mA (off) or 100mA (on) • Size: 3.0"L x 2.0"W x 1.6"H



19 pc. Kit 5-9 10-24

Part No. Description 129103 Windsld wiper delay \$19.95 \$17.95 \$15.95

FAX Toll Free 1-800-237-6948

K2543

24 sc. Kit

Order Toll Free 1-800-831-4242

BBS 650-637-9025

K2599

HM2007U1

41 pc. Kit

116 pc. Kit

Computer Interface Board A

Connects to the printer port of a computer without interruption of the printer at the existing port. Works well in control applications such as the DC dimmer



(P/N 128901 – pg 71) and infrared tran./rec. P/Ns 120555 and 120547 (pg 70).

16 I/Os with opto coupler

Analog outputs: (8) 6-bit (64 steps), (1) 8-bit (256 steps)
Analog inputs: (4) 8-bit (256 steps)

Full opto-isolation with computer

3.5" driver disk w/ routines in C++, QBASIC, Turbo Pascal • Requires DB25 cable P/N 65787 (pg 127) PCB size: 9.3"L x 5.3"W
 Weight: 1.7 lbs.

Part No. Description 128928 Computer Interface board..\$149.95 \$134.95

DC to Pulse Width Modulator A

The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage PWM range: 0 to 100%

PWM frequency: 100Hz to

5kHz (adjustable) Operating voltage: 8 to 35VDC Minimum consumption: 35mA

Maximum output current: 6.5A

. Efficiency: better than 90% at full load Adjustable sensitivity: 2.5 to 35VDC

 Size: 3.3"L x 1.9"W x 1.8"H
 Weight: 0.5 lbs Description Modulator\$20.95 \$18.95 \$16.95

Universal AC Motor Control

This kit is especially designed for control of drills or any other AC motor with carbon brushes.

Power supply: 125VAC or 220-240VAC, 50/60Hz

Load supply: 24VAC to 240VAC Max power to be regulated:

1200W @ 220V • Control range: 5% to 95% Size: 5.2"L x 3.0"W x 2.2"H • Weight: 0.9 lbs.

Part No. Product No. Description AC motor controller \$29.95 129082 K2636 \$26.95

Universal Relay Card A

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

Relay contact: 5A/220V

Output voltage: 12VDC/250mA Power supply: 220V or 125VAC/12VAC

PCB size: 8.3"L x 5.9"W
 Weight: 1.8 lbs

Part No. Product No. Description 5-9 128910 K6714 Univ. relay card\$59.95 \$53.95 144186 VR15M121C Relay

Liquid Level Controller

With this kit, you can control the level of any container of liquid. You can also replace the liquid sensors with temperature or light sensors and use accordingly. There are relay switches to a separate circuit that can maintain fluid between low and high levels.

Supply voltage: 12-14VDC @ 300mA min., recommend transformer P/N 10081 (pg 63)

Alarm signal provided for desired applications PCB size: 4.1"L x 2.4"W x 1.0"H
 Weight: 0.5 lbs Part No. Description 129154 Liquid level contr. ...\$24.95 \$22.49 \$19.95 2-Wire, 8-Channel Communication Transmitter and Receiver ■ Transmitter P/N 131730

requires receiver P/N 131721 Two wire communication hookup

Power supply through data-line (each requires

131730 9 to 16VDC @ 1.5mA supply - not included) recommend P/N 101291 (pg 62)

Tested to a distance of 164 feet 131730: • PCB size: 1.7"L x 1.5"W • Weight: 0.3 lbs.

131721: • PCB size: 3.8"L x 1.8"W • Weight: 0.3 lbs. Part No. Product No. Description 131730 K6700 8-ch. transmitter ... \$14.95 \$13.49 131721 K6701 8-ch. receiver24.95

Infrared Code Lock Transmitters and Receivers 75 pc. Kit

Use for car alarms, garage doors, door locks, lighting control, etc. Over 8000 selectable codes

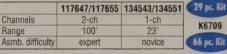
Use several transmitters with one receiver Transmitters require

K8004

40 pc. Kit

12V battery type V23G Receivers feature relay output 10A change-over or pulse contact and [

require 12-16VDC @ 100mA Weight: 0.3 lbs. (transmitters) 0.5 lbs. (receivers)



Part No.	Product No.	Description 1-4	5-9
117647 ★	K6706	2-ch transmitter\$15.95	\$14.49
117655*	K6707	2-ch receiver29.95	26.95
134543	K6708	1-ch transmitter SALE	17.95
134551	K6709	1-ch receiver34.95	31.49

15-Channel Infrared Transmitter and Receiver

· 15 independent channels Transmitter/receiver range: ±30 meters

Supply voltage: 37 pc. Kit 9V battery

· Weight: 0.8 lbs. 120547:

· Each output can be a

change-over or pulse contact switch Power requirements:

8-14VDC

 PCB dimensions: 2.8"L x 5.7"W Weight: 0.5 lbs

Part No. Product No. Description 1-4 120555 K6710 Infrared transmitter ... \$62.95 120547 K6711 49.95 Infrared receiver.

Metal Detector

 Proximity range adjustable to 8cm Battery supply: 9 volts (not included)

LED indicator, can use a buzzer as an option (P/N 105822 - pg 52)

· Weight: 0.4 lbs Part No. Description 129091 Metal detector.....

10-24 \$9.95

120547

Remote Control by Telephone

Possible to turn on or off up to three devices

Check conditions of a switch (open or closed)

Turn lights on and off from a touch tone telephone

Check home/office alarm system Turn heating on before arriving home

Protected by a user-defined code

Pick up after 3 or 8 rings (selectable) Supply voltage: 12VAC @ 300mA

Relay included for one output (10A/250VAC) PCB dimensions: 4.1"L x 5.1"W • Weight: 0.7 lbs.

Description 1-4 5-9 Remote control......\$69.95 \$62.95 \$56.95 120678

Parking Radar

This kit uses a sensor circuit board which is mounted to the back of the car, and a "base" to operate.

Parking in tight places can be difficult, but the unit can tell you when you have come within the preset

distance you set of the object behind you. Detection range: 5cm - 1.5m, adjustable angle: 5°

Transmitter frequency: 40kHz

Power supply: 10-15VDC @ 16mA max or auto power plug (P/N 115001 – pg 62) PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

Weight: 0.5 lbs.

Part No. Description

K6708

16 pe Kit

134543

120555

76 pc. Kit

44.95

K7102

22 pc. Kit

K6706

129120 Parking radar \$44.95 \$39.95 \$35.95

LED Car Alarm 🛦

Entry/exit delay

· Pre-alarm to indicate when alarm is activated

Flashing LED indicates alarm is armed in standby

Relay output rating: 5A

 PCB dimensions: 2.5"L x 3.9"W
 Weight: 0.5 lbs. 1-4

Part No. Product No. Description 120627 K3504 Car alarm. SALE \$19.95

Code Lock Kit

· Switch an alarm on and off or open door locks 3000+ codes possible

LED indicates state

Relay contact rating:

5A/220V

Pulse or switch outputs

PCB dimensions: 1.7"L x 1.8"W
 Weight: 0.5 lbs.

Part No. Product No. Description

127554 K6400 Code lock kit. .\$34.95 \$31.49

Electronic Watchdog Kit I

· Choice of 2 different dogs Realistic simulation

through random 104 pc. Kit

Reacts to environmental noise with adjustable sensitivity . Can connect to other trigger detectors

 PCB dimensions: 5.6"L x 2.9"W
 Weight: 0.5 lbs. Part No. Product No. Description

Stroboscope 🔺 Make your own snapshots

and "lightning" light effects. Flash frequency adjustable from 2 - 20Hz. Input: 110VAC

· Weight: 0.4 lbs.

127597 K2655

 PCB dimensions: 3.5"L x 2.6"W Part No.

19 pc. Kit Description \$17.95 \$15.95 **117639★** Stroboscope....... SALE

Electronic watchdog \$39.95 \$35.95



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for mat quantity, or less FTP Documentation available at ftp jameco com Also available at your local JIM-PAK retailer - see page 128

K5300

67 pc. Kii

K4301

K2637

27 pc. Kit

114 pc. Kit

23 pc. Kit

Each channel reacts to a different part of the music spectrum and can be adjusted to react to a different frequency range

Line or microphone input Maximum load 2A per channel

Space for optional noise filters

 Each output has individual sensitivity control Complete housing and AC power connectors

 Dimensions: 6.7"W x 5.6"D x 1.7"H
 Weight: 1.2 lbs. Part No. Product No. Description

131684 K5202 3-ch sound light ... \$59.95 \$53.95

Universal Mono Pre-Amplifier

For audio applications where there is insufficient input signal. Use as a microphone pre-amplifier or for level correction. Requires power supply



10-30VDC/10mA (P/N 20626, pg 72) Output impedance: 1kΩ

Frequency range: 20Hz - 20kHz +/-3dB

Adjustable output level . Max. input signal: 40mV PCB dimensions: 1.2"L x 1.8"W
 Weight: 0.3 lbs.

Description 1-4 5-9 10-24 117612 Pre-amplifier\$9.95 \$8.95 \$7.95

FM Oscillator

Mini FM transmitter (100-108MHz) is ideal for family broadcasts, baby monitor and security. May be received by any portable FM radio or tuner.

Connects to any type of microphone (P/N 112352, pg 52) 26 pc. Kit Integrated pre-amplifier (sensitivity 5mV)

 Requires power supply: 9-12VDC (P/N 20626 or equivalent, pg 72)

 PCB dimensions: 1.8"L x 2.8"W
 Weight: 0.3 lbs. Part No. Description

117604 FM oscillator \$12.95 \$11.49 \$9.95

1 Amp Power Supply

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators. Chip includes current limiter and thermal overload protection. Supplied without cooling and power transformer.



K1823 12 pc. Kit

K1771

Output current max.: 1.5A

· Requires quick connect power transformer: 25.2VCT @ 2A (P/N 102103 or equivalent, pg 61)

 Max. dissipation: 15W (cooled) Max. input voltage: 40V

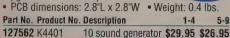
 PCB dimensions: 2.1"L x 2.1"W
 Weight: 0.3 lbs. Part No. Description 1-4 5-9 10-24 117621 Power supply\$12.95 \$11.49 \$9.95

Sound Generator Kit

 Produces 10 different sounds with speed adjustable: guns, sirens, car engines, explosions, tunes. screeching tires, phaser guns Push-button keyboard

Requires 9V battery (not included) Requires 8 ohm/1 watt speaker

(P/N 102031 or equivalent, pg 53 - not included)



Supermini 2.5W Audio **Power Amplifier** I

This circuit has incredibly tiny dimensions. The IC has a pre- and power amplifier, which can be used separately by cutting a jumper.

Power supply: 4.5V to 15VDC @ 400mA

Operating frequency: 60Hz to 15kHz

Max. output power: 2.5W (4Ω, 12V)

Short circuit/thermal overload protection

Dimensions: 1.7"L x 1.3"W x 1.1"H • Weight: 0.3 lbs. Part No. Description 1-4 5-9 127175 2.5W audio pwr amp kit \$13.95 \$12.49 \$10.95

7W Mono Amplifier Kit 🖿

Music output power: 7W/4Ω

RMS output: 3.5W/4Ω & 2W/8Ω

 Harmonic distortion: 0.05% (1W/1kHz) • Frequency response: 22 pc. Kit

20 to 20kHz (-3dB) Short circuit/overload

protection . Requires speakers Requires power supply: 15VDC (8 to 18VDC) 0.5A

 PCB board size: 2.2"L x 1.4"W
 Weight: 0.3 lbs. Part No. Description 1-4

127255 7W mono amp. kit \$12.95 \$11.49 \$10.49

Electronic Record/ Playback Module 🗸

 Digitally record and play up to 5 voice messages

Automatic playback feature

 12 to 20 seconds per module (can cascade modules)

 Requires loudspeaker output: 8Ω (recommend P/N 102031, pg 53) · Messages recorded to nonvolatile voice chip

• Supply voltage: 9-12VAC or 6VDC (4 x 1.5V batteries) battery pack included, batteries not included

PCB dimensions: 4.8"L x 3.8"W
 Weight: 0.5 lbs.

Part No. Product No. Description 5-9 **127571** K4400 Elec. rec./plbck mod. SALE \$49.95

AM/FM Antenna Amplifier

Easy to assemble, this amplifier may make the difference in your reception quality, especially in your car or in areas with any deflection due to terrain and buildings. K2622

 Supply voltage: 12-15VDC @ 1-3mA

Gain 22dB (10MHz to 150MHz)

Includes metal casing to store amp • Weight: 0.4 lbs.

Assembled size: 3.4"L x 1.4"W x 1.0"H

Description 10-24 129146 AM/FM ant, amp....\$15.95 \$14.49 \$12.95

Slow On/Slow Off Dimmer 🗸

 Excellent device to control lighting in places such as garages, stairways, porches, etc. 2 mode operation: dim

slowly (2 sec. to 1 hour) and timer/dimmer (independent adjustment 1 sec. to 30 min.)

Voltage inputs: 110-125 or 220-240V, 50 or 60Hz for external power use (2) P/N 112723 (pg 57) Maximum load: 2A • Power supply included

PCB dimensions: 3.7"L x 2.7"W
 Weight: 0.4 lbs.

Part No. Product No. Description 127589 K2657 Slw on/slw off dimmer \$24.95 \$22.49

Dual 30 Watt Power Amplifier

Dual 30W/4Ω

· Channel separation: 70dB RMS output: dual 15W @

 4Ω or dual 10W @ 8Ω Frequency bandwidth:

7Hz to 60kHz (-3dB) Supply voltage: 24VCT @ 2A (50W transformers). recommend P/N 101864 (pg 61)

Size: 2.8"L x 2.0"W • Weight: 0.6 lbs.

Part No. Product No. Description

129138 K4003 2 x 30 amplifier \$34.95 \$31.49

Pink Noise Generator

· Use to analyze the acoustic properties of a room

· 33-bit shift register Clock frequency from

30kHz and 100kHz

Output voltage: 150mV RMS @ 40kHz

Pink noise filter: -3dB per octave

34 pc. Kit Can be used with P/N 129171 (below) Required power supply: 9-12VAC or 12-15VDC @ 5mA

PCB size: 2.8"L x 1.6"W
 Weight: 0.4 lbs

Part No. Description 1-4 5-9

10-24 131705 Pink noise generator \$14.95 \$13.49 \$11.95

Audio Spectrum Analyzer

Visualizes the composition of an audio signal. You can use a microphone (P/N 112352, pg 52) and a pink noise generator (above) to adjust the equalizer to the acoustic

behavior of the room and your speakers.

 Ten frequency bands 32 to 16kHz • Requires 2 x 9VAC, 18VCT transformer

(P/N 105531, pg 61) or 12 - 15VDC @ 1A

PCB board size: 5.8"L x 3.2"W • Weight: 1.0 lb.

Part No. Product No. Description 129171 K4300 Spectrum analyzer\$99.95

Universal Start and Stop Timer I

 Timer for applications requiring a delay up to 60 minutes

 Power requirements: 12VDC @ 55mA

Time interval adjustable 0-15 min. (w/o modifications)

• PCB dimensions: 1.5"L x 2.7"W · Weight: 0.5 lbs.

Part No. Description

5-9 10-24 120619 Start/stop timer.....\$14.95 \$13.49 \$11.95

DC Controlled Dimmer A

This handy circuit is ideal for replacing an existing dimmer switch; and can be used in a control application via P/N 128928 interface board (pg 70).

· Supply voltage: 110V or 220-240V, 50 or 60Hz

18 pc. Kit

K8003 37 pc. Kit

Can be used for 24VAC

DC control voltage: 0-10VDC

 Maximum control current: 2.25mA @ 12V PCB size: 3.0"L x 2.0"W x 1.8"H
 Weight: 0.4 lbs.

Part No. Description 128901 DC controlled dimmer \$19.95 \$17.95

5-9

61 pc. Kir

FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com/

183 pc. Kit

Front

JAMECO 2.5" High 6-Digit Clock Kit



105507 (JE725KIT)

- Bright 2.5" high 6-digit displays (red)
- Can be viewed from over 50' away
- 12 hour or 24 hour display switch
- Fast and slow set switches
- Time hold control switch . Safe low input voltage: 9VAC
- 105507 kit includes: PC board, components, wall transformer and kit instructions - 183 total pieces (case with red lens sold separately)
- Assembled kit shown below (109268)
- Kit PC hoard size: 17.5"L x 3.5"W Weight: 1.2 lbs

Part No.	Description	Price
105507	Digital clock kit	\$49.95

Enclosures for Digital Clock Kit (105507)

- Includes red lens, mounting hardware and easy-tofollow instructions (see enclosure below)
- Black satin anodized aluminum
- Size: 18.0"L x 5.3"W x 1.4"H
 Weight: 1.7 lbs.
- Part No. Product No. Description 109241 JE725CEA Enclosed case\$39.95 \$35.95

Assembled Digital Clock 2.5" High 6-Digit Display



- Fully assembled JE725 digital clock in Bright LEDGE black satin anodized aluminum case
- The clock's front lens can be custom silkscreened with your company's logo or an individual's name making it a great promotional item or gift. Call for details.
- Size: 18.0"L x 5.3"W x 1.4"H Weight: 3.5 lbs.

Part No. Product No. Description 109268 JE725AEA Assembled clock \$119.95 \$107.95

Light Computer Kit

- 16 programs and 7 outputs turn this kit into a unique light producer for entertainment/display applications
- · Supply voltage for lamps: 24VAC to 240VAC
- Circuit supply voltage: 7.5-9VAC/250mA 122 x kit PCB dimensions: 5.4"L x 3.1"W
 Weight: 0.6 lbs.

Part No. Description 1-4 127600 Computer light kit \$44.95 SALE

DECADE

Voice Scrambler Kit PRODUCT Scramble & descramble audio information

Converts human speech into an unrecognizable garble. The descrambler

- mode restores the signal to fully intelligible speech. · Audio output: 0.5 watt
- Sample rate: 8kHz 31 pc. Kit
- · Resolution: 8 bits
- Power supply: ±5VDC @ 250mA, +12VDC @ 250mA
- Recommend power supply P/N 73613 (pg 72) Dimensions: 3.6"L x 3.1"W
 Weight: 0.5 lbs.
- Description 70519 \$34.95

JAMECO Electronic Kits JE 2206 Function Generator Kit Sine, triangle and square wave

Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal triangular (saw-tooth), and square wave-forms at frequencies continuously variable from 1Hz to 100kHz.



Requires 12VDC supply or ±6VDC split supply. 21 piece kit (chip. components, PC board, hardware)

- Recommend power supply P/N 20626 (below)
- Size: 4.1"L x 1.5"W Weight: 0.1 lbs.

Part No. Description 20685★ Function generator \$19.95 \$17.95 \$14.95

Dual Adjustable Power Supply Kit ■ ± 5VDC to ± 15VDC @ 175mA to 750mA

- 48 piece kit (JE215) (components/hardware) 48 pc Nin
- · Adjustable positive and negative supplies ±5 to ±15VDC regulated, 175mA - 750mA per supply
- Positive and negative 5VDC to 15VDC
- Power output (each supply): 5VDC @ 750mA, 12VDC @ 500mA, and 15VDC @ 175mA
- 120VAC input
 PC board construction
- LED on indicator . Includes easy to follow instructions Size: 5.1"L x 3.5"W x 2.0"H
 Weight: 2.1 lbs.
- Description 5-9 10-24

20626★ Power supply kit ...\$19.95 \$17.95 \$15.95

Triple Voltage Power Supply Kit + 5VDC @ 1 Amp, +3 to +12VDC @ 100mA and -3 to -12 VDC @ 100mA

Power output: Fixed + 5VDC @ 1 amp. adjustable +3 to +12VDC @ 100mA, adjustable

-3 to -12VDC @ 100mA · Input voltage

- 120VAC @ 50/60Hz
- 103 pc. Kit Fuse protected PC board construction
- Size: 5.1"L x 5.1"W x 2.3"H
- · Weight: 2.1 lbs. Description

Power supply kit ... \$29.95 \$26.95 \$23.95

JE310 Fiber Optics Kit

Discover the intriguing principles of fiber optics data communications. The kit includes separate transmitter and receiver circuit boards, fiber optics cable and all connectors for interfacing cables with the circuit boards. Either a square-wave or TTL signal from 200Hz to 5kHz can be inputted.

Requires 9 volt battery (not included)

Size: 4.1"L x 1.5"W x 0.3"H
 Weight: 0.1 lbs

Description 5-9 Fiber optics kit \$19.95 \$17.95 \$15.95

Live Wire Detector

- · Determine if a wire is live. detect wire within walls and terminating points K7101
- Weight: 0.3 lbs. Part No. Description

10-24 131692 Live wire indicator SALE \$11.49 \$9.95

30 pc Kit

Digital Voice Recorder Kit 20-sec. single or multiple voice/sound recorder

- ISD 1420P voice chip · Easy to use 3 button switches (start, record and play)
- · Flashing LED indicator alerts presence of message
- · High quality, natural voice/audio

reproduction (Zero power message storage

Requires four 1.5V "AAA" batteries or 9VDC wall transformer (P/N 130796, pg 63) – not included Board size: 4.6"L x 2.1"W • Weight: 0.3 lbs.

Part No. Product No. Description 116484 JE920KIT Voice recorder kit ..\$49.95 \$44.95

ELENCO Telephone Line Analyzer Test Kit

See page 120 for complete specifications

26 pc. Ki Description Part No. Line analyzer kit. \$24.95 \$22.49 119378

ELENCO Transistor and Diode Tester Kit ■

- . Black case . Weight: 1.0 lb. Size: 6.3"L x 3.8"W x 2.0"H
- Transistor Mode:

Checks all transistors

- Identifies NPN and PNP, PN or NP iunctions . Measures relative beta of two transistors
- · Can test transistors in circuit with

base or collector resistors as low as 100Ω Diode Mode:

- Checks all diode types silicon, power, leds and · Indicates cathode or anode leads of diode
- · Operates in circuit with resistors 5K and above

Part No. Description 119360 Transistor and diode kit SALE

Compukit Breadboard Data Acquisition Module Kit 🔺 Connects your PC

or Mac serial port to your project or other compukits assembled on a regular prototyping board.



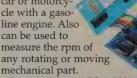
 Use ASCII commands to send/receive data in decimal, hexadecimal or binary format Includes software and manual
 Weight: 0.6 lbs

Part No. Description

127204 Compukit kit for breadboards ... SALE \$49.95

Digital Tachometer 🔺

This tachometer may be adapted to any car or motorcycle with a gasoline engine. Also can be used to measure the rpm of any rotating or moving



• Supply voltage: 12VDC @ 200mA (P/N 100095, pg 63)

CMOS technology · Resolution: 100 rpm

Scale: 100 to 9900 rpm • Displays: 0.5" LEDS (2) PCB board size: 3.1"L x 2.3"W
 Weight: 0.5 lbs.

Part No. Description 5-9 10-24 1-4 129074 Digital tachometer....\$39.95 \$35.95 \$31.95



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less

Pocumentation available at ftp. jameco com

84 pc. Kit

🛪 Also available at your local JIM-PAK retailer - see page 128

OWI Electronic Kits

Hyper Peppy Beginner ○ /Advanced Kits ▲

Easy to build and assemble with basic hand tools. Hyper Peppy, a faster and zippier robot when comes in contact with an obstacle or hears a loud sound, will reverse itself and resume a different course.



Condenser microphone

Easy to assemble mechanical drive system

 Size: 12.0"L x 7.0"W x 3.5"H
 Weight: 0.9 lbs. 140863: Pre-assembled printed circuit board

145496: Soldering required

Part No. 5-9 Description Hyper Peppy beginners kit ...\$24.95 Hyper Peppy advanced kit24.95 \$22.49 22.49 140863

Soccer Robot Beginners Kit

Allows you to build this interactive robot with simple hand tools. Soccer robot has 6 operational kicking mechanisms. It runs forward, backward, turns left



or right and executes 360 degree turns.

Hardware for building the kit
 Size: 12.0"L x 7.0"W x 3.5"H
 Weight: 1.1 lbs.

Description 140871 Soccer robot beginners kit \$34.95 \$31.95

Mecha-Medusa Intermediate Kit

A walking robot that operates on the aid of sound sensor. By clapping your hands or snapping your fingers you can control this robot to start walking; it continues to walk until instructed by an internal timer to stop. Requiring only simple basic hand tools.



· Pre-assembled printed circuit board

· Easy to assemble drive kit system

· Weight: 0.9 lbs. Condenser microphone Part No. Description 1-4

140847 Mecha-Medusa kit \$39.95 \$35.95

Spider Advanced Kit 📤

A robot that moves about avoiding obstacles by infrared ray sensing system. The infrared ray sensing system, composed of infrared ray emitter and infrared ray receiver, finds obstacles to go around and changes its direction.



Infrared sensor including infrared diode/photo diode/IC

2 DC motors
Hardware for building the kit
Size: 12.0"L x 7.0"W x 3.5"H
Weight: 1.2 lbs.

Part No. Description Spider advanced kit\$59.95 \$53.95 140821

Line Tracker Advanced Kit 🔺

A robot that follows a black line on white paper with the use of a photointerrupter which projects and receives infrared rays While black absorbs infrared rays, white reflects them.



Infrared sensor including infrared diode/photo diode/transistors/IC

Hardware for building the kit Size: 12.0"L x 7.0"W x 3.5"H • Weight: 1.1 lbs.

Description 140839 Line tracker advanced kit SALE \$49.95

Crossbow Digital **Accelerometer Interface Card**

Measures and observes acceleration, impact, tilt, vibration, and other acceleration-related physical phenomena



Simple digital interface for 1-axis P/N 141591

and 3-axis P/N 141575 accelerometers Plugs into any RS232 port 38.4K baud

400Hz maximum sampling rate

Includes user friendly graphical software

· Requires 9VDC 500mA power supply male connector (not included) - recommend P/N 15561 for power supply (pg 63) & DE9 (male - female) cable - recommend P/N 25700 for DE9 cable (pg 127)

Size: 3.0"L x 2.5"W x 1.3"H
 Weight: 0.2 lbs.

One-year warranty

Part No. Description 141583 Digital interface card\$199.95 \$179.95

Crossbow Accelerometer Module 1-Axis and 3-Axis

Applications: vibration analysis, tilt sensing, motion sensing, inertial quidance, virtual reality systems, crash sensing, shipping and transportation shock monitoring, active suspension, medical analysis, active noise cancellation.



141575

· High performance, small, and low cost Dynamic range, excellent frequency response, easy to interface to a standard acquisition systems

Requires a 5VDC power supply (not included)

 Shielded cable: 2'L pigtail
 One-year warranty • Dimensions: 1.9"L x 1.0"W x 0.8"H • Weight: 0.1 lbs

Part No. Product No. Axis Current 1-4

141591 CXL04M1 One 8mA.......**\$89.95 \$79.95 141575** CXL04M3 Three 24mA......**159.95 143.95**

Jameco PCB Design Kit

 Kit includes donut pads, DIP patterns, artwork tapes, presensitized PCB with developer, knife with holder and



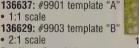
blades, #9901/#9903 design templates (see below) and alpha/numeric lettering transfers . Wt.: 0.4 lbs.

Part No. Description Etch-kit, college level..... ..\$22.49 136611

Electronic Design Templates

 Include symbols, components and center spacing layouts Weight: 0.1 lbs.

136637: #9901 template "A" 1:1 scale





136629 Part No. Description 10-24 #9901 template "A"\$6.95 136637 \$5.95 136629 #9903 template "B"6.95

Digital Voice Module

For recording and reproduction of verbal messages without wear and distortion like a tape



· See page 17 for complete specifications

Part No. Description 124871 Digital voice module... \$79.95

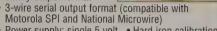
PRECISION NAVIGATION, INC. Vector 2X Compass Module

· Applications: vehicle mapping and tracking. robotics. HAM radios. camera positioning

2° accuracy, 1° resolution

5Hz sampling rate

Pin selectable BCD or binary output format



Power supply: single 5 volt • Hard iron calibration

Raw uncalibrated magnetometer output optional

Master or slave capability for data clock generation

Polled or continuous mode options

Size: 1.5"L x 1.3"W x 0.4"H · Weight: 0.2 lbs.

Part No. Description

126703 Vector 2X compass module \$49.95 \$44.95

PRECISION NAVIGATION, INC.

Vector 2XT Gimbaled **Compass Module**

The Vector 2XT is a mechanically gimbaled version of the Vector 2X. where applications require some tilt compensation.

Applications: autopilots, marine electronics, terrestrial antenna direction

indicators, industrial navigation and more

2° accuracy, 1° resolution

Dynamic range: ±15° • 5Hz sampling rate Pin selectable BCD or binary output format

3-wire serial output format Power supply: single 5 volt

Temperature range: -20°C to +70°C

Master or slave capability for data clock generation

Size: 2.5"L x 1.3"W x 0.6"H · Weight: 0.2 lbs.

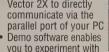
One-year warranty

Part No. Description

132901 Vector 2XT compass module\$99.95

Precision Navigation, Inc. **Vector 2X Developers Kit**

 Development board which allows your Vector 2X to directly communicate via the



you to experiment with



the different functions of the Vector 2X without first having to design an SPI interface to a microprocessor

P/N 126703 (above) module not included

 Size: 3.3"L x 2.2"W x 0.6"H · Weight: 0.7 lbs.

Part No. Description 1-4 126691 Vector 2X developer kit......\$99.95 \$89.95

Distance Sensor Module

This module sends out a sound wave 20 times per second and calculates the distance based on the time from send to receive back. The distance is represented by an output voltage from 0 to 10VDC Sensing range: 4" to 60"



Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")

 Requires 15 to 24VDC @ 40mA (not included), recommend P/N 114825 (pg 63)

 Board size: 2.8"L x 1.8"W x 0.9"H
 Weight: 0.2 lbs. • Sensor diameter: 1.8" • One-year warranty

Part No. Description

134105 Distance sensor



PCB Development Materials, Antistatic Supplies and Cleaners

Datak ER4 PHOTO ETCH™ Printed Circuit Kit

Use this kit to generate your own 1:1 artwork, then use the patented Pos-Neg[™] process to make a photo negative, sensitize and expose a blank copper board, then



develop and etch it. Like to build magazine projects? Make a film positive and negative from the magazine PC art illustration, expose your sensitized copper board and etch. The magazine page is not destroyed in this process. No darkroom or camera is required. Circuits may also be direct-etched as with the ER1. All necessary materials, except the light source, are included (see ER19 below.)

You receive a steel 5" x 6" print frame. Pos-Neg™ film. film processing pack, yellow filter, 4 oz. negative photo resist, 16 oz. resist developer, blank copper circuit boards, dry concentrated etchant, 1:1 resist patterns and tapes, and complete instructions.

Weight: 3.9 lbs.

*Shipped via UPS ground to continental U.S. only.

Part No.	Product No	Description	1-4	5-9
16731	ER4*	Printed circuit (complete)	\$39.95	\$36.95

Datak ER4 Refills and Accessories Datak ER1 Direct Etch "Starter" Set

The ER1 Direct Etch set includes 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIPS, patterns, lines, 1/32" and 1/16" etch resist tape. (see DE973 for an even larger pattern assortment) • Weight: 0.7 lbs.

Part No.	Product No.	Description	1-9	10-24
70412	ER1	Printed circuit star	t kit \$11.95	\$10.95

Datak ER39 Photo Etch Light Bulb

The ER-39 floodlamp is intended for use in exposing Datak Printed Circuit products, including the new Negfast® reversing film, positive acting, pre-coated boards and those that are user sensitized with the ER-71 negative acting resist coating. Now, one bulb can do it all.



· Weight: 0.4 lbs.

AMECO

Part No.	Product No.	Description	1-9	10-24
146501	ER39	Exposure	lamp\$11.95	\$10.95

Datak ER11 Copper **Clad Circuit Boards**

Set contains one 5" x 6" and one 3" x 4.5" (copper clad one sided) 1/16" phenolic circuit board.



(The ER11 is supplied in the ER4 kit.) • Weight: 0.2 lbs.

Part No.	Product No.	Description	1-9	10-24
16707	ER11	Copper clad circuit boards \$4.	95	\$4.49

Datak ER3 Dry Concentrated Etchant

1/4 pound of anhydrous ferric chloride in a vapor-tight package makes one pint of etch solution, enough to etch 200 square inches of copper-clad circuit board. Material has substantially more etch capacity than ammonium persulfate etchants. (The ER3 is supplied in the ER1 and ER4 kits.) . Weight: 0.3 lbs

Part No. Product No. Description **70201** ER3 Dry concentrated etchant \$3.95 \$3.49 139918

Datak Additional Accessories



EPA SNAP

CFCs or HCFCs

· Safe on plastics





DATE	120	
3		
14	We.	
 100	723	

Dundant.		10201	10.20		
	Product Number	Description	Wt. (lbs.)	1-9	10-24
6758	ER8*	Negative acting re	esist		
		developer, 16 oz.		.\$6.95	\$6.25
6723	ER18	TINNIT™, 1 pint	0.2	6.95	6.25
0261	ER71*	Negative-acting p	hoto		
		resist liquid, 4 oz.		8.95	7.95
0480	ER181	TINNIT™, 1/2 ga	llon size		
		(hulk pack)	0.6	15.95	14.49

70498 DE973 Direct Etch™ Dry Transfers asst. 0.2.....29.95

*Shipped via UPS ground to continental U.S. only.

Tech Spray Cleaners

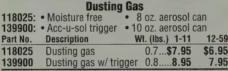






 NOTE: Shipped via UPS ground only except P/N 139918





Cleaner Degreaser

 Rapid evaporation • 10 oz. aerosol can • Weight: 0.8 lbs.

Flux Remover

 Dissolves type R, RMA, RA, SA and most no-clean fluxes
 10 oz. aerosol can
 Weight: 0.8 lb 118041 Flux remover.....

Contact Cleaner

- · Ideal for switches, relays, contact pads and other places of electrical connections
- Solvent will not damage switch housings

• 10 oz. aerosol can · Weight: 0.9 lbs. ..\$7.95 118033 Contact cleaner

Zero Charge® Mat & Table Top Cleaner Leaves an anti-static agent that helps prevent

static charge build-up • 1 pint w/ trigger in plastic bottle · Weight: 1.2 lbs. Mat & table top cleaner...... .\$8.95

Blue Shower® II Degreaser

Non-flammable and safe on plastics. For precision cleaning of polar and non-polar soils · Weight: 0.7 lbs 8 oz. aerosol can 139926 Blue Shower® II degreaser.

Envi•Ro•Tech™ Freezer

A rapidly evaporating liquid that can chill to -62°F. 10 oz. aerosol can Weight: 0.8 lbs Envi•Ro•Tech freezer.... \$7.95

Label & Adhesive Remover · Weight: 0.1 lbs. · 2 oz. bottle

Label & adhesive remover \$5.95 \$5.35 141760 ST92

Jameco Protective Coiled Wrist Grounding Strap New lotton

· Comfortable, adjustable Velcro wrist strap

The coiled cord has banana plug and alligator clips

 Includes a 1MΩ resistor for added safety Extended cord: 9' long

Color: black
 Weight: 0.1 lbs.

Part No. Description 1-9 10-99 34551★ Anti-static strap... \$6.95 \$6.25 \$5.75

Jameco Anti-Static Heel Strap

· Discharges static without restricting your mobility

· Ideal for anyone handling static sensitive devices

· Ground strap: 15.5"L

· Color: black · Weight: 0.1 lbs. Product No. Description HG2 Heel strap\$5.95



Jameco Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive looking semiconductive vinyl that provides adequate



discharging, yet will not short leads or pins. Includes grounding clip (P/N 10575 and 10583)/ terminal (P/N 101901)

Part No. Dimension Wt. (lbs.) Color gray \$7.95 \$6.95 11.3" x 22" 0.7 101901 * 16.0" x 24" 2.0 beige 9.95 8.95 19.5" x 23.5" gray 11.95 10.95 12-59 Part No Description Mat & table top cleaner.... \$8.95 \$7.95 139942

Jameco Conductive **Anti-Static Foam and Bags**

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

 For safe storage of static sensitive devices

• Size: (13864) 24.0"L x 12.0"W x 0.3"H

Part No. Description Wt. (lbs.) 1-9 10-99 100+ Anti-static foam 0.1...\$9.95 \$8.95 \$7.25 4x6 anti-static bags .01 .19 8x10 anti-static bags .02.

Jameco Anti-Static Touch Pad

 Pad has 1MΩ of resistance

· Coiled ground strap with removable alligator clip, 6'L

 Color: blue • 15.0"L x 0.5"W • Weight: 0.1 lbs. Product No. Description JE1215 Anti-static pad. .\$4.49 \$3.95

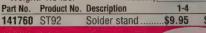
Jameco Solder Stand

12 pc. solder stand (some assembly required) Size: 3.6"W x 3.9"D x 4.3"H

Shaft diameter: 0.6 Weight: 1.6 lbs.







\$1.39 Sale price good at this quantity enty SALE Sale price to the right of banner good for that quantity, or less FTP Documentation available at fip jameco com

OEM Pricing Available!

and Jameco Rosin Core Solder Rolls & Pocket Pak



Part No.	Manufacturer			osition Silver	Dia. (In.)	Wt. (lbs.)	Pkg.	1-9	10-49	50-99
73576	Kester	60	40	0	.031	0.04	pak	\$1.49	\$1.25	\$.99
32117	Kester	60	40	0	.031	1.0	roll	11.95	10.75	9.75
73605	Kester	62	36	2	.020	0.10	roll	2.95	2.75	1.95
112344	Kester	63	37	- 0	.020	1.1	roll	15.95	14.49	13.95
141807	Jameco	60	40	0	.031	0.22	roll	2.95	2.65	2.39
141794	Jameco	60	40	0	.031	0.55	roll	4.95	4.49	3.95
141786	Jameco	60	40	0	.031	1.1	roll	9.95	8.95	7.95
141778	Jameco	60	40	0	.031	2.2	roll	16.95	15.49	13.95

Rosin Paste Flux

A highly active non-corrosive flux with excellent wetting action. Specifically for electrical/electronic applications. Permits soldering of



even difficult metals such as brass or nickel. Non-corrosive and electrically non-conductive.

Weight: 0.2 lbs.

Part No.	Description	. 1	-9	10-99	100+
73584	Rosin paste	flux\$1.2	29	\$1.09	\$.99

Lead-Free Solder Tip Tinner

Use will prevent oxide buildups and tin depletion on the tip which will increase tip life, and heat trans-

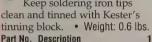


ici icsulmig ni a better solaci je	JIII.
 0.7 oz. tin with self adhesive p 	ad
• Weight: 0.06 lbs. Safe and	
Part No Description Effective	4.

132986 Lead-free tip tinner....

10-49 .\$4.95 \$4.49 \$3.95

Tinning Block Roll Keep soldering iron tips clean and tinned with Kester's





lo.	Description	1-9	10-49	
6	Tinning blo	ck \$2.95	\$2.49	\$2.25

Jameco Solder Wicks

 Easy to use handy dispenser Braided copper with flux

9459



• weign	IL. U.U3 IDS.			
Part No.	Description	1-9	10-99	100+
41081	.079"W solder wick ((5')\$.99	\$.79	\$.65
41099	.098"W solder wick	5') .99	.79	.65

No-Clean **Solder Wicks** Meets all of the most



stringent soldering 124126 124118 standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002. • Length: 5'

124126: • Weight: 0.01 lbs.

124110/	139931: • Weight: 0	.02 108.		
Part No.	Description	1-9	10-99	100+
139951	Solder wick .030"	\$2.25	\$1.95	\$1.75
124126	Solder wick .060"	2.25	1.95	1.75
124118	Solder wick .085"	2.25	1.95	1.75

Jameco Glue Gun and Sticks

Will adhere to PCBs, cardboard. wires, metal

Silicon nozzle Electronic heating

system UL/CSA listed

Automatic trigger action

Utilizes long glue sticks (100mm)

	Description	1-4	5-9
rait NU.	Description	1-4	J-5
72696	Glue gun\$	12.95	\$11.49
78633	Glue sticks (100mm - 6/pk)		

Heavy Duty Magnifying Lamp

High quality magnifying lamp, with adjustable arm and clamp for attaching lamp to tables and desks.

- 45" extension arm
- · Supplied with 22 watt Circline tube
- New wire clip design permits easy installation
- · Power requirement: 110VAC/60Hz
- 3-diopter lens included · Weight: 7.3 lbs.

Description 1-4 100829 Magnifying lamp......\$59.95 \$53.95 \$49.95

(UL) (SP

Standard Adjustable **Magnifying Lamp**



- Maneuverable 30" arm extension Lamp tilts or turns in
- any direction
- · Uses 60W incandescent bulb (not included)
- Large magnification
- Power requirement: 110VAC/60Hz

Weight:	2.9 lbs.		Marie Carrie	Mingration Act
Part No.	Description	1-4	5-9	10-24
22710	Magnifying	lamp\$29.95	\$26.95	\$23.95

2 Piece Electronic Inspection Set

 For visual inspection of inaccessible locations Sharp metal



pick (0.1"Dia. x 6.0"L) - great for PCB re-work • Bent mirror tool (0.1"Dia. x 6.8"L) -

for visual inspection · Weight: 0.1 lbs.

Part No.	Description 1-9	10-49
72514	Electronic inspection set\$3.95	\$3.49

Jameco Heat Gun

· Use with heat shrink material

Works with spot-dry paint, plaster, spackle cure adhesives Will remove



adhesive-applied tiles and linoleum without chipping

 Dual heat setting: 600°F/1100°F · Can thaw pipes, frozen locks, loosen rusted bolts

UL listed
 Weight: 1.8 lbs.
 Size: 9.3"L x 7.0"W

Part No. Description 1-4 76865 Heat gun\$39.95 \$35.95

Weller Soldering Station

 Temperature adjustable 350°F - 850°I

· Zero-voltage circuit ensures that no high voltage spikes or magnetic fields are present at the tip to damage sensitive components

Meets all government

Lighted on/off switch • Tip leakage: less than 2mV

Tip to ground resistance: less than 2Ω

40 watt pencil is fitted with an ETA tip

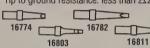
Size: 6.0"L x 4.5"W x 3.8"H • Weight: 1.9 lbs.

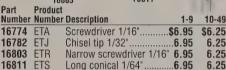
Part No. Description 34497

Weller Soldering Tips For WCC100

Tip leakage: less than 2mV • Wt.: .02 lbs.

• Tip to ground resistance: less than 2Ω





No Clean SMD Repair Kit

Kit includes: • 186 flux pen

- 245 no-clean flux cored solder
- Lead free ultrapure tip tinner
- · 951 no-clean braid
- Vacuum handling tool w/ vacuum probe
- 1/8", 1/4" and 3/8" cups
- Weight: 0.2 lbs

Part No. Descri	ption

143298 No-clean SMD repair kit SALE



application and clean-up Potential damage to

Quick and easy to use

Uses simple equipment

and materials for

printed circuit board are eliminated 2.5' of CHIPQUIK® material removes

1250-1500 SMD pins • Weight: 0.1 lbs.

Part No. Description 141305 SMD removal kit

Multifunction Heating Tool Kit Multifunction hobby tool for

soldering, woodburning, leather crafts and stencil cutting; works as a hot knife.

120VAC, 25W heating element Contains the following tips:

Three solder tips: Cove type, fine point, chisel type Hot knife holder blade

- Four craft tips: general purpose point, grading point, script point, dot point

Includes solder & heating tool stand
 UL, CSA listed

Weight: 0.5 lbs. • One-year warranty

Part No. Description 129015 Multifunc. heating tool......\$14.95





















Weller specifications including
Mil STD 2000 (Model WCC100)

 UL Listed · One-year warranty

\$119.95













WAHL® Cordless Soldering Irons

- Tip reaches temperature 900°F
- . Iron performance equivalent to 25 watt iron
- · Includes soldering iron, recharging stand, Ni-Cad battery pack, and tips
- One-vear warranty

IsoTip® Quick Charge Soldering Iron 132775

- · Recharges in 3-4 hours
- Solders up to 20 minutes continuous or 120 joints per charge
- Weight: 1.1 lbs.

Part No. Description
132775 Quick-charge cordless iron...



\$39.95

IsoTip® Power Pro Soldering Iron Model #7904:

The #1 choice for field service soldering!

- Solders 200+ joints or up to 30 minutes of continuous soldering Recharges in 3–4 hours

LED	indicator light	 Weight: 	1.1 lbs.

Part No.	Description	Price
132783	Power Pro cordless iron.	\$59.95
	looTin® Coldoring le	ron '60'

IsoTip® Soldering Iron '60

Model #7800:

- · Up to 125 electronic joints per charge
- Charges from full discharge state to full charge in 60-minutes • Weight: 1.4 lbs

Part No.	Description	Pric
127853	Cordless soldering iron	\$54.9
	D' 0-1-1 1	11.1.1/11

7 Piece Soldering Aid Kit





- · Soldering wick
- · 3 piece scraper set
- · Acid brush · Clip on heat sink · Empty squirt bottle Wt. (lbs.) 1-9 Part No. Description 10-49 50-99 100378 Clip on heat sink 0.01...\$.59 \$.49 100503 Soldering kit 0.2....6.95 6.25

E-Z Tweez **SMD Rework Tweezers Station ESD Safe**

- · Fast and efficient removal of "in line" surface mount components
- Temperature range: 482°F to 842°F
- Output power: line voltage
- Electronically controlled to +9°F of idling
- Power consumption: 90W
- Size: 7.9"L x 5.1"W x 3.9"H
 Weight: 2.5 lbs

Part No.	Description		Price
138931	SMD rework tweez	ers SALE	\$149.95
-			

137031

17.95

137066

0.1....19.95

ZK SMD Tweez Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Heater insulation exceeds 100MΩ 137058 120VAC
 UL approved
- · Heater power consumption: 35W x 2 Max. temperature: 760°F

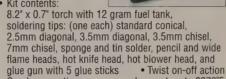
137040 XY57

Part No. Product No. Description Wt. (lbs.) 1-4 137031 TWZ226 Iron 1.0 ...\$89.95 \$80.95 Tip .079 137058 XY55 0.1....19.95 17.95 137066 XY56 Tip .393' 0.1....19.95 17.95

6-in-1 Multipurpose Torch Kit & Iron

This torch works as a soldering iron with interchangeable tips and interchangeable heads for flames, heat and a blower.

- · Uses standard butane fuel (not included)
- Kit contents:

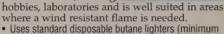


- One-hour continuous use per charge at up to 2370°F and two hours up to 750°F · Includes manual
- Case size: 9.4"L x 5.8"W x 1.2"H One-vear warranty · Weight: P/N136012: 1.0 lb., P/N 136004: 0.4 lbs.

Part No.	Description	Price
136012	6-in-1 torch kitCloseout	\$39.95
136004	2-in-1 soldering iron (only)	19.95

Pocket Jet Torch

This hand size torch is an excellent tool for household uses, brazing,



- /maximum height: 2.92"/3.04" not included) Piezo electronic ignition system with safety lock design
- 1300°C/2400°F wind resistant jet flame Weight: 0.2 lbs.
- Size: 4.4"L x 2.3"W x 0.8"H One-year warranty Description

135992 Pocket torch... \$12.95 \$11.49

Electronic Micro Torch with Safety Lock

- Instant ignition
- Runs appr. 90 min. per butane fill (butane not included)
- Maximum temperature: 1300°C/2370°F Adjustable flame from 12mm to 32mm
- Size: 1.4"W x 3.5"D x 5.9"H (at nozzle)

Wolgit.	0.1	100.	0110	your	warranty	
Part No.	Des	criptio	on			
100000						

Part No.	Description	1-4	5-9
138958	Electronic micro	torchSALE	\$35.95
lomo	an Electric	and Non Ela	otrio

Jameco Electric and Non-Electric **Desolder Pumps** Easily disassem-



(P/N 19254) 19254

(P/N 19166): 7.8"L x 0.8"Dia. Weight.: 0.2 lbs (P/N 19254): 10.5"L x 1.0"Dia. Weight.: 0.5 lbs.

Part No.	Description	1-4	5-9
19254	Electric desolder pump	.\$29.95	\$26.95
19166*	Non-electric desolder pump	4.95	4.49
22091	(2) tips for 19166	2.49	1.95
19262	(1) tip for 19254	4.95	2.95
lomo	an Caldarina Irana	and C	hand

Jameco Soldering Irons and Stand

- 110-120VAC UL approved 30 watt 102461 Length: 8.3'
- 1/4" removable tip Ideal for precision work One-hand operation
 Weight: 0.3 lbs

Part No.	Description	1-4	5-9
102461*	30W soldering iron	\$3.95	\$3.49
116020	Replacement tips for 102461(2	2) 1.95	1.49
36329	Soldering stand (pg 77)	3.95	3.49

One-Shot Desoldering Gun

This low maintenance desoldering gun with selfcontained vacuum pump is perfect for



desoldering through-hole components.

- Ergonomic, lightweight design 120VAC
- Interchangeable standard tips 1.0mm tip included
- Power consumption: 60W
- Zero static tip, 3 wire grounded
- · Sensitive where CMOS protection is needed
- · Quick release stainless solder collector
- Electronic temperature control One-year warranty
- Gun casing size: 7.0"L x 4.0"W Weight: 2.2 lbs

Part No.	Product No.	Description	1-4	5-
129066	XY2008	Desoldering gun\$	129.95	\$116.9
140214		"Y" replacement		
134594	XY53	1.0mm replace, tip	7.95	6.9
134607	XY54	1.2mm replace. tip	7.95	6.9

Thermally Balanced Soldering Iron



The electer 200 GX is a thermally balanced

- soldering iron for the professional or hobbyist. • 120VAC; 6' cord • 25 watt power consumption
- Interchangeable tips (pg 77)
- 1.6mm conical tip included One-year warranty
- UL listed
 Length: 8.0"
 Weight: 0.6 lbs.

Part No. Product No. Description 129040 XY200GX 25W solder. iron...\$19.95 \$17.95

Electronic Temp-Control

The AUTO-Temp 369 offers the ultimate in temperature controlled hand soldering providing rapid heat-up and heat recovery.

Temperature control 500°-800°F Circuit protects



Soldering Station

voltage and current sensitive ICs from voltage Power LED indicator

· Power consumption: 45W at 650°F · UL listed

 See below for replacement sponge (P/N 134631) Includes one 1/16" tip · One-year warranty

 Size: 7.2"L x 4.7"W x 3.0"H
 Weight: 2.3 lbs. Part No. Product No. Description

Soldering station .. \$69.95 129058 XY369 \$62.95 134623 XY40 1/64" extra fine tip4.95 4.49 1/16" fine conical tip..4.95 134615 XY39 4.49

Accessory Sponges

- P/N 134640 for models XY168. XY1683 & XY1683C
- P/N 134631 for models XY960 XY369, and XY100S

Part No. Product No. Description 134640 SP815 48x48mm sponge....\$1.95 134631 SP715 48x52mm sponge...

Tip .590" \$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less



Documentation available at ttp. jameco.com Also available at your local JIM-PAK retailer - see page 128.

5-9

\$89.95

SALE

36329 1-4

Digital Display Soldering Station

The XY960 Digital Display Soldering Station is designed for soldering situations where precise temperature is required for sensitive components.

Easy to read .560"H 3-digit LED readout

 Temperature is maintained at ±6°F tolerance of the set temperature

Electronic temperature control from 200°F to 878°F

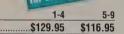
Zero-voltage thyristor switching protects voltage and current sensitive devices such as CMOS ICs against voltage spikes

Power-on and Heater-on LED indicators
 Power consumption: 60 watts

UL listed
 Includes one 1/16" tip (P/N 35115 – below)

• See opposite page for replacement sponge (P/N 134631)

 Size: 5.1"W x 8.0"D x 4.0"H · Weight: 4.6 lbs. Product No. Description Part No. Digital display soldering station.



125508 (Desolder Station)

Size: 9.2"L x 7.2"W x 3.6"H

125516 (Combo Solder/Desolder)

ESD Safe!

VALUE

35351

Combo Soldering/ **Desoldering Station and Desoldering Station**

- XY968D: Digital Fahrenheit/Centigrade read out
- XY968D/XY999SDA: Anti-Clog/Energy Saver
- · Maintenance free, quiet operation
- Simple fine tune feature to select 300°F - 850°F range

XY960

- · Vacuum pump activated "on demand" using finger tip switch on desolder handle
- Spike control feature protects current sensitive components such as CMOS ICs
- · Rapid heat-up/recovery design sensor monitors tip to detect extremely small temperature deviations
- See opposite page for replacement

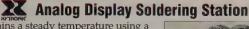
Shoulde	(F/N 134031) • One-year warranty	SIZE: II L X IU W X	4 H
Part No.	Product No.	Description	Weight (lbs.)	Price
125508	XY968D	Desoldering station	13.1	\$349.95
125516	XY999SDA	Soldering/desoldering	station 18.1	489.95

Electronic Temperature Controlled Soldering Station Tip temperature electronically controlled to ±6°F of idling

Adjusts from 300°F to 850°F with no change to tip or heating element

- Transformer isolates line transients and spikes

	output: 24VAC power: 60W	• ESD safe • UL approve	od ÜL		
Part No.	Product No.	Size (W x D x H)	Weight (lbs.)		Price
138923	XY960AESD	5.1" x 8.0" x 4.0"	4.6	SALE	\$149.95
	Tine & Ron	acoment			



Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control from 300°F to 850°F
- Zero-voltage thyristor switching protects voltage and current sensitive devices such as CMOS ICs against voltage spikes
- Power-on and Heater-on LED indicators
- Power consumption: 60 watts
- Includes one 1/16" tip (P/N 35115 below)
- See opposite page for replacement sponge (P/N 134640) • Size: 4.3"W x 6.0"D x 3.4"H

 Weight: 4.1 lbs.
 UL listed Part No.

Product No. Description 114569 XY1683C Analog display station (w/ solid tip).....

Soldering Iron and Stand

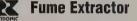
116572: 16-30 watt variable

- · Length: 7.5" Weight: 0.6 lbs. 36329:
- Black anodized steel base 5.3"L x 3.3"W • Includes sponge
- See opposite page for replacement sponge (P/N 134631)

Fits most soldering irons .85" diameter
 Weight: 0.5 lbs.

Product No. Description

16-30W variable soldering iron.....\$19.95 116572 JS1258 \$17.95 Soldering stand 36329 100S* 3.49



Absorbs noxious lead fumes using activatedcarbon filter and a high efficiency fan

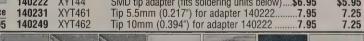
- Designed to operate continuously providing filtered air
- Compact size allows use on work bench w/ minimum space
- Aerodynamic hood design for effective removal of solder fumes • 120VAC, 60Hz, 22 watt · Airflow: 115CFM
- On/off power switch
- Black anodized aluminum case Noise: 49dB fan
- Includes detachable power cord
 Fuse protected
- Removable carbon impregnated filter

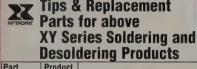
 Static ground jack
 Size: 6.4"W x 4.6"D x 7.9"H
 One-year warranty Description Product No. Weight (lbs.)

120150 FX426DLX Fume extractor 4.60..... \$79.95 \$89.95 127183 FX426F Replacement filter

SMD Adapter and Flat Pack Soldering Tips For irons P/Ns 35351, 114569, 125516 and 138923
 Wt.: .03 lbs.

10-24 Part No. Product No. Description SMD tip adapter (fits soldering units below)...\$6.95 Tip 5.5mm (0.217") for adapter 140222.........7.95 Tip 10mm (0.394") for adapter 140222.........7.95 XYT44 \$5.95 140222 140231 **XYT461** 140249 **XYT462**







I alt	Houdet				TOT MODEL MUITIDES (FIEVIOUS MODELS)						FIRE	ally					
Number	Number	Description	Wt. (lb.)	Fig.	JS1258	XY168*	XY1683*	XY1683C	XY960/AESD	XY966D*	XY968D	XY999SDA	XY2660*	XY200GX	1-9	10-24	
35078	XY1	Soldering tip - semi-chisel 1/32"	.02	1	1	1		1	1			1		1	\$3.95	\$3.49	
35115	XY2	Soldering tip - conical chisel 1/16"	.02	2	1	1		1	1			1		1	3.95	3.49	
35238	XY3	Soldering tip - semi-chisel wide 1/8"	.02	1	1	1		1	1			1		1	3.95	3.49	
35326	XY5	Soldering tip - conical bevel 1/32"	.02	3	1	1		1	1			1		1	3.95	3.49	
35334	XY6	Soldering tip - conical sharp 1/64"	.02	4	1	1		1	1			1		1	3.95	3.49	
35140	XY21	Soldering tip - conical chisel 1/16"	.02	5			1						1		Cleanent	2.95	
35191	XY25	Soldering tip - conical sharp 1/64"	.02	6			1						1		4.95	4.49	
35297	XY37	Heating element- (nichrome) for iron assembly	.05	7		1		1	1			1			19.95	17.95	
35318	XY48	Soldering iron assembly - 60W w/ nichrome heater	.40	8		1		1	/			1			29.95	26.95	
127634	XY50	Desoldering tip - 1.0mm (.0394")	.01	9						1	1	1			7.95	6.95	
127642	XY51	Desoldering tip - 1.2mm (.0472")	.01	9						1	1	1			7.95	6.95	
127651	XY52	Desoldering tip - 1.5mm (.0586")	.01	9						1	1	1			7.95	6.95	
140222	XYT44	SMD tip adapter (tips available above)	.03	10				1	1			1			6.95	5.95	

Same Day Shipping!





(A) MOTOROLA DATA BOOKS Analog/Interface ICs (1995)

Presents detailed technical information on Motorola's linear and interface ICs. Products are divided into 10 sections with its own comprehensive selector quide. Includes cross reference list. 2 volumes (636 pages)

1-4

FACT CONTACT NAME OF

.\$6.95

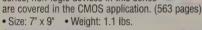
\$5.95

• Size: 7" x 9" • Weight: 5.2 lbs. Part No. Description

119829 Analog/Interface IC Book \$23.95 \$21.49

CMOS Logic Data Book (1991)

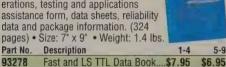
Presents technical data for Motorola's CMOSLOGIC broad line of Metal-Gate CMOS Logic ICs. Includes data sheets. Product selector quide and handling and design quidelines chapter are included for further information. Includes data on all the logic circuits from the MC14000 series; non-logic devices in this series



Part No.	Description	1-4	5-9
93251	CMOS Logic Dat	a Book \$7.95	\$6.95

Fast and LS TTL Data Book (1992)

Circuit characteristics, design considerations, testing and applications assistance form, data sheets, reliability data and package information. (324



M68HC05 Applications Guide (1996)

Provides a basic but thorough introduction to the operation of microcontrollers, followed by a chapter describing the architecture, addressing modes, instruction set, communications and timer of the MC68HC705C8. (286 pages) • Size: 7" x 9" • Weight: 0.6 lbs. Part No. Description

M68HC11 Reference Manual (1991)

A valuable aid in the development of M68HC11 applications. Detailed descriptions of all internal sub-systems have been developed and checked against Motorola's internal design documentation. (477 pages)

Size: 7" x 9"
 Weight: 2.0 lbs.

119845 M68HC05 Applicat. Guide.

Part No.	Description	1-4	5-9
119853	M68HC11 Ref. Manual.	\$8.95	\$7.95
C	ommunications No.	rices (1005	3

 1325 p 	pages • Size: 7" x 9" • Weight: 2.8 lbs.				
Part No.	Description Price				
126383	Communications Data Book\$14.95				
Outselecturies Devise (400°)					

Optoelectronics Device (1995)

 373 pa 	ges • Size: 7" x 9'	' • Weight:	0.9 lbs.	
Part No.	Description		1-4	5-9
93235	Optoelectronics D	evice Book	\$6.95	\$5.95

M68000 Programmer's Reference (1992) 636 pages Size: 7" x 9" Weight: 2.0 lbs. Part No. Description 1-4

\$7.95 M68000 Program. Ref \$8.95

IAIDOONO 9/	16/32-bit Microprocessors (19	90
 196 pages 	 Size: 7" x 9" Weight: 0.5 lbs. 	

• 196 pa	ges • Size: /" x 9"	• Weight: 0.5 lbs.	
Part No.	Description		Price
119870	M68000 Microproc	ess. Book	\$6.95

Fast Static RAM BiCMOS, CMOS and Module (1995)

Part No.	Description	Price
93243	FS RAM BICMOS, CMOS & Module	

- INSTRUMENTS DATA BOOKS -

TTL Logic Data Book (1988) Contains specifications and technical information on a broad line of TTL integrated circuits including

Standard TTL circuits and Schottky TTL circuits. (1240 pages) • Size: 6.0" x 8.5" • Weight: 2.6 lbs.

Description 88225 TTL Logic Data Book



SALE \$24.95

Power Supply Circuits Data Book (1996)

This data book is a showcase of TI's growing line of analog components for power supply designs. (1040 pages) • Size: 7.5" x 9.3" • Weight: 2.8 lbs Description 130139 Power Supply Circuits \$24.95

Data Acquisition Circuits (1995)

Provides you with information on dual-slope analogto-digital converters (ADC), successive-approximation semi-flash, and flash ADC converters. (1160 pages)

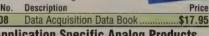
• Size: 7.5" x 9.3" • Weight: 3.2 lbs.

Part No.	Description	Price
88305	Linear Circuits Vol.2	\$17.95
-	National Semiconductor	DATA BOOKS

Data Acquisition Book (1995)

Data acquisition systems, active filters, analog switches and multiplexers, A-to-D and D-to-A converters, sample and hold, temperature sensors, voltage references and surface mount. (958 pages)

 Size: 7" x 9"
 Weight: 3.0 lbs. Part No. Description 41208



Application Specific Analog Products Data Book (1995)

Audio circuits, radio circuits, video circuits, display drivers, clock drivers, frequency synthesis, special automotive, special functions, surface mount, appendices/physical dimensions. (1250 pages)

Size: 7" x 9"
 Weight: 2.4 lbs.

Part No.	Description	1-4	5-9
79089	Appl. Spec. Analog Data Book.	.\$15.95	\$14.49

Power ICs Data Book (1995)

Linear voltage regulators, low dropout voltage regulators, switching voltage regulators, motion control, peripheral drivers, high current switches, surface mount, appendices/physical dimensions. (800 pages) • Size: 7" x 9" • Weight: 1.4 lbs.

Part No.	Description	Price
79062	Power IC's Data Book	11.95

Ethernet Data Book (1996)

Includes an introduction to Local Area Network (LAN) standards, and in-depth applications for Ethernet products. (1634 pages) • Size: 6.6" x 9.0" • Weight: 3.0 lbs. Description Part No. Price 133348 Ethernet Data Book. \$19.95

Telecommunications Data Book (1994)

COMBO, CODE/Filter and SLIC devices, software. design and applications. Includes circuits for PBX. DTMF, programmable filters and CMOS serial interfaces and more. (444 pages)

• Size: 7" x 9" • Weight: 0.9 lbs. Part No. Description

Telecomm. Data Book Operational Amplifiers Data Book (1995)

Operational amplifiers, buffers, voltage comparators, instrumentation amplifiers, surface mount, appendices/physical dimensions. (1343 pages)

• Size: 7" x 9" • Weight: 2.5 lbs.

Part N	No. De	escription				Price
7907	1 0	p Amplifier	Data	Book.		\$16.95
					-0	

Easy PIC'n Data Book (1996)

Square 1 Publishing Learn all about the PIC16C54 & PIC16C84 and apply to the whole line of PIC16/17 microcontrollers. This easy-to-use quide teaches assemblers, programming, interrupts, timing/counting and I/O conversion. (152 pages)



• Size: 8.5" x 11.0" • Weight: 1.0 lb. Part No. Description

136645 Easy PIC'n Data Book \$29.95

Semiconductor Cross Reference Book (1996)

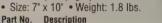
Prompt Publications An invaluable reference for finding replacement and substitution semiconductors. Over 490,000 part numbers, type numbers, and identifying numbers. (671 pages)

Size: 10.9"L x 8.4"W
 Weight: 2.7 lbs

Description Price 139555 Semiconductor cross ref. \$24.95

The BIOS Companion (1997)

TRI-TAM Enterprises, Inc. Covers all BIOSs and answers all your BIOS questions. It is invaluable if you work with odd computers, especially older ones. Subjects covered include: the PC and how it works, memory and its management. Includes a CD-ROM. (300 pages)



Price BIOS Companion (book & CD-ROM) \$59.95 146561

DATA BOOKS

486 Programmer's Reference (1995)

 818 pages
 Size: 7" x 9"
 Weight: 1.7 lbs. Part No. Description

Price 93227 486 Programmer's Reference \$22.95 **Pentium® Pro Family**

Developer's Manuals (1996)

Volume 1: Specifications

 286 pages
 Size: 6.8" x 9.0"
 Weight: 1.0 lb. Part No. Description 133321 Pentium® Pro Family Vol. 1 SALE \$19.95

Volume 2: Programmer's Reference Manual 580 pages
 Size: 6.8" x 9.0"
 Weight: 1.9 lbs Part No. Description 133372 Pentium® Pro Family Vol. 2. \$19.95

Embedded Microcontrollers (1996)

 700 pages
 Size: 7" x 9"
 Weight: 1.5 lbs. Part No. Description Price 109348 Embedded Microcontrollers .. \$17.95

Embedded Microprocessors (1996) 500 pages • Size: 7" x 9" • Weight: 2.5 lbs.

Part No. Description

Price 109356 Embedded Microprocessors... \$19.95 Z80 Microprocessor Family (1995)

Zilog Publishing Includes specifications plus develop-

ment support, a Superintegration Products Guide, Support Products Summary, Z80/Z180/Z280 HW/SW support and more! (393 pages)

• Size: 7" x 9" • Weight: 1.5 lbs.

Part No. Description Z80 Microprocessor Family ... \$6.95 \$6.25

Application Note Book (1996)

Dallas Semiconductors Contains information for the DS 1212, 1220, 1225, 1230, 1620, and other Dallas Semiconductor parts. (487 pages)

 Size: 7" x 9"
 Weight: 1.1 lbs. Part No. Description 123220 Dallas Application Notes

\$19.95

Price



\$1.39 [2:4]





Simplified Design of Data Converters FTP **Newnes Publishing** From data converter basics to experimentation and their OHN D. LENK design, this book offers a wealth of information on data converter integrated circuits and related components. Detailed explanation of analog-to-digital and digitalto-analog conversions, (242 pages) • Size: 9.2"L x 6.0"W • Weight: 0.8 lbs. Part No. Description 5-9 1-4 Data converters book ... 140610 \$29.95 \$26.95

The 8052 Microcontroller Idea Book (1994)

· Circuits, programs and applications featuring the 8052-Basic single chip

computer (277 pages)
• Size: 7.8" x 10.5" • Weight: 1.6 lbs. Part No. Description 5-9 Microcontroller Idea Book .. \$31.95 \$28.95 126375

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BASIC-52

\$11.49

....\$24.95

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REF

Dasic-32 neiglefile book	1 333)
 Complete reference to programmi 	ing
80C52-Basic and 8052AH-Basic	
microcontrollers (160 pages)	
• Size: 8.2" x 10.6" • Weight: 1.0	lb.
• 126295: 3.5" disk with circuit exa	amples

Part No. Description 5-9 126252 Basic-52 Programm. Ref.\$24.95 \$22.49 Basic-52 3.5" disk...... 12629511.95 10.49

Holtek CD Product Guide (1997)

Features product data sheets for Holtek's entire line of semiconductors in Adobe Acrobat PDF files.

• Size: 5.0" x 5.0" • Weight: 0.06 lbs. Description 146122

Holtek Data/Product CD.....\$12.95 TTL Cookbook (1995)

SAMS Publishing This is a complete look at TTL, including how it works, is interconnected, is powered, and is used in many practical applications. (335 pgs)

 Size: 5.5" x 8.5"
 Weight: 1.0 lb. Part No. Description. TTL Cookbook \$24.95 \$22.49 38914

CMOS Cookbook (1997)

Newnes Publishing Everything you need to know to intelligently use CMOS circuits. User-oriented, stresses real-world applications, pays attention to detail, with a minimum of math and heavy theory. (512 pgs)

 Size: 5.5" x 8.5"
 Weight: 1.3 lbs. Description Part No. **CMOS Cookbook**

Pocket Reference (1996) Sequoia Publishing Airline and lost credit

card 800 numbers, area codes, airport info, money exchange rates, climate data and time zones and more. Includes tables. maps, formulas, constants & conversions and it fits in your shirt pocket! (544 pages) • Size: 3.3" x 5.4" • Weight: 0.3 lbs.

Description Pocket Reference.....\$9.95 \$8.95 78166

Electronics Pocket Reference (1994)

TAB Publishing Contains essential electronic facts needed by engineers, technicians, students and hobbyists. Filled with formulas, tables and diagrams that supply helpful, straight forward solutions to electronics problems. (496 pages)

 Size: 4.0" x 5.5"
 Weight: 0.6 lbs. Description 112539 Electronics Pocket Reference \$19.95 \$17.95

HEARST PUBLISHING -

IC Master (1997) Enhanced with Internet access to Pinout & Package Data

Functional and numerical search guide to 125,000 commercially available integrated circuits, including over 13,000 new ICs. Alternate Source

Directory lists 120,000 devices. 3 Volume set (3500 pages) • Size: 7.5" x 10.5" • Weight: 10.3 lbs. Part No. Description Price 136303 1997 IC Master

IC Master CD-ROM for Windows® (1997) Enhanced with "True" Parametric Search!

Includes pinout and package data for over 85,000 devices, hundreds of manufacturer supplied supplemental data pages, the Alternate Source Directory, the Manufacturers & Distributors Directory, plus the entire IC Master Directory of IC Manufacturers' Data Pages. . Wt.: 0.3 lbs.

Part No. Description 136291 1997 CD-ROM IC Master

Electronic Engineers Master (1998)

\$219.95

This massive 4-volume purchasing resource lists all electronic products and their manufactures. Each volume contains its own product Index and Directory. It also includes manufacturers and sales offices. Cross references to other volumes are included. 4 Volume set includes 2 additional volumes of

process measuring and control products from Omega. (4300 pages) • Size: 7.5" x 10.5" • Weight: 29.7 lbs.

Part No.	Description	Price
145779	EEM 98	\$99.95
134279	EEM 97	89.95

Electronic Engineers Master CD-ROM for Windows (1998)

For the first time ever, the entire EEM database is

available on a single compact disk! With the all new 1997 EEM CD-ROM for Windows®, data retrieval is fast and efficient. Users can search by product and manufacturer. They have access to 4,400 product catalog data pages from

over 1,000 manufacturers. The EEM CD-ROM for Windows® includes the complete Manufacturers and Sales Offices directory that lists over 5,300 manufacturers with their local sales offices. • Weight: 0.03 lbs.

Description CD-ROM, EEM 1998..... 145787 134287

IC Cross Reference Book (1996)

Prompt Publications The most comprehensive replacement and substitution guide available for engineers, technicians, and anyone who works with ICs and modules. The IC Cross Reference book is from the makers of PHOTOFACT® service documentation. It includes more than 35,000 part and type number list-ings for the United States, Europe, and the Far East.

(168 pages) • Size: 8.5" x 10.8" • Weight: 0.9 lbs. Part No. Description

124679 IC Cross Reference Book.....\$19.95 \$17.95 Component Identifier & Source Book (1996)

Prompt Publications Identify components and locate their manufacturers fast! This easy to read book will help you identify components and trace their origin. Match logos to their companies. Find new manufacturers after mergers and acquisitions. Excellent for the electronics engineer, technician, or hobbyist

(353 pages) • Size: 8.4" x 10.8" • Weight: 1.9 lbs. Part No. Description Price 139539 Component Identifier..... .\$24.95

Encyclopedia of Electronic Circuits on CD-ROM

Tab/McGraw Hill Electrical engineers can turn to this new CD-ROM for an interactive, electronic version of the Encyclopedia of Electronic Circuits, It features 1,000 circuitry drawings from the 5-volume set. Fully searchable. • Weight: 0.5 lbs. Description

130500 Encyclopedia CD-ROM .\$99.95 \$89.95 **Encyclopedia of Electronic Circuits** TAB Publishing.

Volume 1: (1985) contains smoke and flame detectors, voltage circuits, transmitters, audio amps, and more. (795 pgs) Size: 7.4" x 9.3"
 Weight: 3.0 lbs. Volume 2: (1988) contains current and DIP meters, photoelectronic alarms, electronic locks, metal and lie detectors. (755 pgs) 128881

• Size: 7.4" x 9.3" • Weight: 2.8 lbs. Volume 4: (1992) contains new automotive and game circuits, power supplies, microwave amp circuits, active antennas, video, computers. (730 pages)

• Size: 7.4" x 9.3" • Weight: 2.7 lbs.

Volume 5: (1995) contains new easy circuits including: alarms and security, computers, frequency meters, gas and smoke detectors, video amps, temp sensors, etc. (730 pages) • Size: 7.4" x 9.3" • Weight: 2.8 lbs.

Part No.	Description	Price
126181	Encycl. of Electr. Circ. Vol. 1	\$29.95
128881	Encycl. of Electr. Circ. Vol. 2	29.95
	Encycl. of Electr. Circ. Vol. 4	29.95
119896	Encycl. of Electr. Circ. Vol. 5	32.95

Electronic Circuit Guidebook (1997)

Volume 1: Sensors Prompt Publications A practical approach to sensors and the analog interface. Information about typical

sensors and analog sensor circuitry. • 339 pgs. • Size: 7.4" x 9.3" • Wt: 1.3 lbs.

Description Part No. Sensors, Electronic Circuit...\$24.95 \$22.49 140732

Electric Circuits (1997)

SCHAUM'S OuTlines

McGraw Hill Ideal companion to your textbook providing 364 solved circuit problems. New chapters on amplifiers, and op-amps circuits, signals and waveforms, two-port networks, circuit analysis

using Spice and Pspice, and fourier transforms.

(468 pages) • Size: 8.2" x 10.9" • Weight: 1.9 lbs.

Part No. Description 1-4 134957 Electric Circuits \$13.95 \$12.49

RF Circuit Design (1995)

Newnes Publishing Complete design procedures for multiple-pole Butterworth, Chebyshev, and Bessel filters. Covers capacitors, inductors, and other components with their behavior at RF frequencies.
• 176 pages • Size: 8.5" x 11" • Wt: 0.9 lbs.

Description Part No. 74093 RF Circuit Design.....\$24.95 \$22.49

Op-Amps (1996)

Design, Applications and Troubleshooting Butterworth-Heineman Publishing

 488 pages
 Size: 7.0" x 10.0"
 Weight: 2.0 lbs. Part No. Description Price 134914 Op-Amp Design \$49.95

Making Your Own Printed Circuit Board

No darkroom needed or special equipment. This manual shows you the steps for drilling and shaping your printed

circuit board and the materials you will need. (37 pages). • Size: 8.5" x 11" • Weight.: 0.5 lbs.

Part No. Description 141524 Making PCBs Book \$14.95 \$13.49



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REPAIRING PO

The MIDI Manual (1991) • 268 pages • Size: 7.3" x 9.2" • Weight: 1.1 lbs Description 139993 The MIDI Manual \$24.95

The In-Home VCR Mechanical Repair & Cleaning Guide (1996)

 222 pages
 Size: 8.4" x 10.9"
 Weight: 1.0 lb Part No. Description Price 139512 VCR Repair & Cleaning Guide. .\$19.95

TechRef (1996)

Sequoia Publishing A must for the PC owner! Quick reference to ASCII codes, PC hardware, printer control codes, modems, MS-DOS commands, Windows® 3.1 and Windows® 95 keyboard shortcuts, hard drive and floppy drive specifications, and more! (832 pages) • Size: 5.0" x 7.5" • Weight: 1.0 lb.

Description 138641 Technical Reference Book....\$29.95 \$26.95

Pocket PC Reference (1996) Sequoia Publishing Full DOS 6.22 and earlier command

reference . ASCII and Hex codes Hard disk specs and configuration data on over 3200 drives

Hardware and software interrupts

Expanded PC industry phone book w/ over 3500 main and tech support phone numbers PC Error codes • Cable and connector pinouts

I/O and memory maps . Video scan frequencies

Modem settings • 544 pages Size: 3.3" x 5.4" • Weight: 0.3 lbs. Size: 3.3" x 5.4"

Description Part No. Pocket PC Reference\$14.95 \$13.49

Pocket PC Directory (1996-1997)

Sequoia Publishing Have the tech support number you need when you need it! Over 2000 North American companies are compiled in this quick reference directory. (554 pages)

• Size: 3.2" x 5.4" • Weight: 0.3 lbs.

Description Part No. Pocket Size PC Directory\$13.95 \$12.49

Understanding Telephone Electronics (1997)

Newnes Publishing Describes how conventional telephone systems operate and how digital electronics replace them. Provides an overview of state-of-the-art speech, circuits, dialing, ringing, and central office electronics. Provides an in-depth review of modems and digital technique transmissions. Also covers microcomputer and cellular phones. (367 pages) • Size: 7.4" x 9.3" • Weight: 1.4 lbs.

Part No. Description 75504 Understanding Tele Electronics\$24.95

Robot Builder's Bonanza (1987) TAB Publishing This fascinating guide

offers you a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures (326 pages) • Size: 7.3" x 9.2" • Weight: 1.2 lbs.

Part No. Description 137171 Robot Builder's Bonanza\$17.95

Parallel Port Complete (1996)

See pg 111 for complete specifications 343 pages
 Size: 7.0" x 10.0"
 Weight: 1.4 lbs

Part No. Description 138261 Parallel Port Complete w/ SW., \$39.95 \$35.95

Power Supplies Project Book (1997) Prompt Publications Guides you through the fundamentals of power supplies to

design and construction of a power supply system. Includes basics of AC and DC regulated and unregulated, linear and switching and more. (124 pages)Size: 6.0" x 9.0"Weight: 0.4 lbs.

Part No. Description 5-9 145453 Power Supply Projects\$14.95 \$13.49 Controlling the World with Your PC (1994)

Hightext Publishing Connect your personal computer to the real world and make it do useful work like controlling stepping motors, monitoring fluid levels, or switching appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. Applications include: generating audio and

speech tones converting input voltages to binary values, driving high power loads and DC relays, and converting DTMF to binary values. (257 pages)
• 3.5" disk is included • Size: 8.5" x 11" • Weight: 1.5 lbs. Part No. Description

116943 Controlling the World w/ Your PC \$29.95 \$26.95 **Upgrading and Repairing PC's (1996)**

SAMS Publishing Ideal for individuals who want an in-depth understanding of IBM and compatible computers. Contains technical specifications, information, and guidelines for upgrading and repairing IBM and compatible 8086/88, PS/2, 286/386/486 and Pentium® systems. (1433 pages)
• Size: 7.4" x 9.0" • Weight: 4.1 lbs.

Part No. Description Upgrading & Repairing PC's \$49.95 29284

Upgrading and Repairing Networks (1996) SAMS Publishing Learn about the inner workings of your network, how to install hardware, and troubleshoot problems. Gain in-depth knowledge of major network operating systems such as NetWare® 4.1, UNIX®, and Windows NT®. Learn about backup technology, linking to mainframes, and SNMP from the experts. Special sections include coverage on adding network services and upgrade options, Internet, remote access, and virus protection with troubleshooting tips to help you identify

and solve problems. (1128 pages)
• Size: 7.5" x 9.1"
• Weight: 4.3 lbs. Part No. Description

Upgrading & Repairing NW.....\$59.95

How to Test Almost Everything Electronic (1993)

TAB Publishing Filled with easy-tofollow instructions that show you how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools and test equipment, systematic troubleshooting using flowcharts.
(326 pages) • Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No. Description 126199 How to Test Everything. \$15.95 \$14.49

Understanding Electronics (1989)

 205 pages
 Size: 7.3" x 9.3"
 Weight: 0.9 lbs Description Understanding Electronics...\$12.95 \$11.49

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TAB Publishing Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (283 pages) • Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No. Description 137162 Electric Motors & Control...\$22.95 \$19.95 **Regulated Power Supplies (1992)**

TAB Publishing Discusses the circuitry and the operation of the latest solid-state regulators. Numerous circuits designed to fit almost any application. (460 pages) • Size: 7.0" x 9.0" • Weight: 1.6 lbs

Description 114551 Regulated Power Supplies.... \$19.95

Build Your Own Low-Cost Signal Generator (1994)

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 Size: 9.2" x 7.4"
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Build Your Own Universal Computer Interface Book (1997)

McGraw-Hill A classic guide, providing complete, step-by-step instructions for assembling a UCIS and connecting it to virtually any of today's popular PC's. (411 pgs.) • 3.5" diskette • Size: 7.3" x 9.3" • Wt.: 2.0 lbs Part No. Description 1-4

143829 Univ. Interface Book w/ disk .. \$34.95 \$31.49 **Build Your Own Pentium Pro® (1997)**

McGraw-Hill Clear, step-by-step guide; anybody who knows which end of the screwdriver to grip can build their own Pentium Pro® processor PC. (348 pages) • Size: 7.5" x 9.3" • Weight: 1.5 lbs

Description 140628 Build Your Own Pentium Pro® \$21.95 \$19.95 **Troubleshooting and Repairing**

Computer Printers (1996) 472 pages
 Size: 7.3" x 9.2"
 Weight: 1.8 lbs. Description Part No 133209 Computer printers \$24.95 \$22.49

> **Troubleshooting and Repairing Audio Equipment (1996)**

• 528 pages • Size: 7.3" x 9.2" • Weight: 2.0 lbs Part No. Description 133217 \$19.95 Audio Equipment.....

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Remove and replace defective laser heads; troubleshoot and replace low-voltage power supply circuits; service signal circuits with a scope, and much more. (489 pgs) • Size: 7.4" x 9.3" • Weight: 1.9 lbs.

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Troubleshooting & Repair Guide to TV (1996) Prompt Publications Learn how to

troubleshoot: PIP (picture-in-picture), microprocessor tuner control circuits. switch-mode power supply circuits, audio/video switching circuits troubleshoot stereo and SAP audio circuits. (238 pages)

Size: 8.4" x 10.9" • Weight: 1.3 lbs.

Part No. Description Troubleshooting TV \$26.95

139521 VCR Troubleshooting & Repair (1995)

286 pages
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 Weight: 1.2 lbs

Part No. Description 74077 VCR Troubleshooting & Repair **Troubleshooting Analog Circuits (1993)**

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Description

Video Scrambling and Descrambling for Satellite and Cable TV (1987)

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 Size: 8.5" x 11.0"
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105161* (2)

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New Enclosures on next page!

Prototype Builder Boards. Enclosures and Hardware

The Jameco Prototype builder boards are specifically designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy duty instrument cases. These pre-cut boards will allow the builder an immediate start on prototyping circuits. Each board has 2 or 4 mounting holes compatible with P/N 106551, PC board mounting hardware.

Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper clad and solder mask one side. Drilled holes: .040" diameter on .080" square pad. Pads spaced on .10" \times .10" grid. Hardware Set (20) PC board mounting hardware listed bottom right. (used with all boards)



106551 Hardware Set (20)

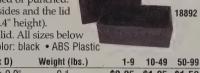


See page 56 for hardware and page 36 for knobs

105099 105152* (2) *All boards sold individually.

Jameco ABS Speedy Boxes

Will not crack or split when drilled or punched. PCB mounting slots on all four sides and the lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS Plastic



Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1-9	10-49	50-99
18921	H2855★	3.1" x 2.0" x 0.9"	0.1	\$2.25	\$1.95	\$1.59
18913	H2853	4.9" x 2.5" x 1.5"	0.2	2.49	2.25	1.79
18892	H2851	6.0" x 3.5" x 1.9"	0.4	2.95	2.69	2.39
18905	H2852★	7.5" x 4.3" x 2.3"	0.5	3.49	2.95	2.49

Printed Circuit Boards for ABS Speedy Boxes · Peripheral ground/power busses

(except P/N 105099)



 Plated 	one side holes	 Weight: 0.1 lt 	os. Reduy		JAKES	
Part No.	Product No.	Size (L x W)	No. of Holes	1-9	10-49	50-99
105099	2855PCB★	2.7" x 1.6"	288	\$2.75	\$2.25	\$1.95
105128	2853PCB	4.4" x 2.0"	671	4.95	4.49	3.95
105152	2851PCB	5.5" x 3.1	1450	5.95	4.95	4.49
105161	2852PCB★	7.0" x 3.6"	2225	7.95	6.95	5.95

Jameco Die Cast Aluminum Enclosures

High quality die cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for circuits involving heat (up to 600°C). Complete with screws.



Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1-9	10-49	50-99
11957	B5002	3.9" x 2.0" x 1.0"	0.2	\$3.75	\$3.25	\$2.79
11965	B5004	4.7" x 2.4" x 1.6"	0.4	4.95	4.49	3.95
11973	B5006	7.5" x 4.3" x 2.4"	1.2	9.95	8.95	7.95

Printed Circuit Boards for Die Cast Aluminum Enclosures

Peripheral ground/power busses

 Plated 	one side holes	• Weight: 0.1 lb	s. Fift	100101		
Part No.	Product No.	Size (L x W)	No. of Holes	1-9	10-49	50-99
105101	5002PCB	3.5" x 1.5"	365	\$3.49	\$2.95	\$2.49
105128	5004PCB	4.4" x 2.0"	671	4.95	4.49	3.95
105161	5006PCB★	7.0" x 3.6"	2225	7.95	6.95	5.95

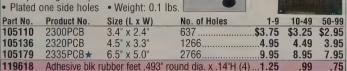
Jameco Aluminum Boxes

Ideal boxes for those weekend projects that get left lying around! Put them in an economical aluminum bo

The box	he boxes come in two pieces which slide together.											
Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1-9	10-49	50-99						
11869	B2300	4.0" x 2.0" x 2.8"	0.2	\$3.49	\$2.95	\$2.25						
11885	B2320	5.0" x 4.0" x 3.0"	0.4	4.95	4.49	3.95						
11893	B2335	7.0" x 6.2" x 4.6"	0.8	6.95	6.49	5.95						

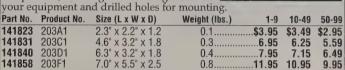
Printed Circuit Boards for Aluminum Boxes

Peripheral ground/power busses
 119618



Jameco ABS Cases w/ Clear Top

Case is made of a gray ABS plastic body with a clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on



Jameco Metal Cabinets

High quality metal cabinets are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.

 Mounting screws and rubber feet included 11949 Product No. Size (L x W x D) Weight (lbs.) 50-99 11914 B2741 4.0" x 3.3" x 2.2" 0.4.....\$4.49 \$3.95 5.9" x 5.3" x 3.0" 7.3" x 6.3" x 2.8" 11922 0.8.....5.95 5.49 11949 B2744 1.1..... 6.95 6.49 5.95

Printed Circuit Boards for Metal Cabinets

Lembine	rai ground/por	Mei nasses - L	ialed one side noies	AAGIÓ	jiii. U. I	IDS.
Part No.	Product No.	Size (L x W)	No. of Holes	1-9	10-49	50-99
105110	2741PCB	3.4" x 2.4"	637	\$3.75	\$3.25	\$2.95
105144	2743PCB	4.7" x 4.5"	1868	7.95	6.95	5.95
105179	2744PCB★	6.5" x 5.0"	2766	9.95	8.95	7.95

Jameco Heavy Duty Instrument Cases

Both cases split apart for ease of working. Four plastic feet molded on unit. Various PCB mounting positions; front and rear panels are molded plastic. 18876 includes ventilation and

speaker	sound slo	ts.				Chamber of the State of the	
Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	Color	1-9	10-49	50-99
18868	H2505★	7.9" x 6.3" x 2.5"	0.8	gray	\$6.49	\$5.95	\$5.49
18876	H2507★	10.0" x 7.5" x 3.1"	1.4	grav	7.95	6.95	6.25

Printed Circuit Boards for Heavy Duty Instrument Cases

Peripheral ground/power busses
 Plated one side holes

Part No.	Product No.	Size (L x W)	Wt. (lbs.)	No. of Holes	1-9	10-49	50-99
105179	2505PCB★	6.5" x 5.0"	0.1	2766	\$9.95	\$8.95	\$7.95
105187	2507PCB★	8.8" x 6.1"	0.2	4771	13.95	12.49	11.25

Jameco Instrument Cases with 9-volt Battery Compartment

Molded black plastic with two metal face plates

Separate 9 volt battery compartment

118877 Printed circuit boards (below) P/N 105099 - sloping panel section P/N 118885 - horizontal panel section

Part No.	neight	Size (L x w)	weight (ibs.) 1-9	10-49	50-99
	2.2"(H2) x 1.2"(H1) 2.9"(H2) x 1.9"(H1)		0.3 \$12.95 0.3 14.95	4	

Printed Circuit Boards for Instrument Cases

Weight: 0.1 lbs.

 106551	Cine (I	105099	4.0	10.40	E0 (
	- BE				11888

Part No. Product No. Description 50-99 2107PCB2★ For sloping panel 105099 2.7" x 1.6"......**\$2.75** For horizontal panel 3.4" x 2.9"......**5.95** 118885 2107PCB1 5.49 4.95 PC board mounting hardware (set of 4) 20 pcs.....1.19



11893

105136

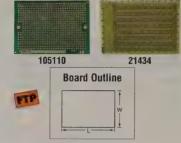
AMECO

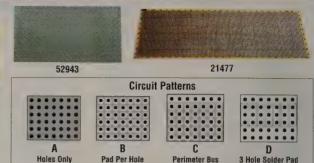
Proto PC Boards and Accessories

IAMECO General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and cost effective alternatives to custom designs.

- 0.16" board thickness 0.1" hole spacing
- 0.04" hole diameter 0.08" pad size
- · Plated through pads are double-sided
- · All boards use terminals T44, T49, and T421
- · See opposite page for PCB mounting hardware
- · Weight: 0.5 lbs





Part	Product	Material/	Size (inches)	Fits Case(s)	Circuit	Holes	Number	Power/Ground	Connector	Mounting	Prici	ng
Number	Number	Description	(W" x L")	(see page 81)	Pattern	Pads	of Holes	Busses	I/O or Edge	Holes	1-9	10-49
105101	5002PCB	Epoxy glass PCB	1.50 x 3.50	11957	C	single-sided	365	4	none	2	\$3.49	\$2.95
105099	2855PCB★	Epoxy glass PCB	1.60 x 2.70	18921	C	single-sided	288	none	none	2	2.75	2.25
105128	2853PCB	Epoxy glass PCB	2.00 x 4.40	18913, 11965	C	single-sided	671	4	none	4	4.95	4.49
105110	2300PCB	Epoxy glass PCB	2.40 x 3.40	11869, 11914	C	single-sided	637	4	none	2	3.75	3.25
105152	2851PCB	Epoxy glass PCB	3.10 x 5.50	18892	С	single-sided	1450	7	none	4	5.95	4.95
105136	2320PCB	Epoxy glass PCB	3.30 x 4.50	11885	C	single-sided	1266	4	none	4	4.95	4.49
118885	2107PCB1	Epoxy glass PCB	3.40 x 2.90	118869, 118877	C	single-sided	820	3	none	4	5.95	5.49
105161	2852PCB★	Epoxy glass PCB	3.60 x 7.00	18905, 11973	C	single-sided	2225	4	none	4	7.95	6.95
28177	PCB1	Epoxy glass PCB	4.13 x 2.44	18913	В	plated through	673	none	none	4	4.95	4.49
105144	2743PCB	Epoxy glass PCB	4.50 x 4.70	11922	C	single-sided	1868	6	none	4	7.95	6.95
21434	JE401(8001)★	Epoxy glass PCB	4.50 x 6.50	18868	B/D	single-sided	2360	2	none	none	14.95	13.49
21451	JE405(8003)★	Epoxy glass PCB	4.50 x 6.50	18868	В	single-sided	2360	1	none	none	17.95	14.95
43140	64P44XXXP	Phenolic PCB	4.50 x 6.50	18868	Α	drilled only	2816	none	none	none	5.95	5.49
52943	84P44WE	Epoxy glass PCB	4.50 x 8.50	18876	A	drilled only	3696	none	none	none	6.49	5.95
37604	169P44WE	Epoxy glass PCB	4.50 x 17.0	N/A	A	drilled only	7480	none	none	none	10.95	9.95
37612	169P44XXXP	Phenolic PCB	4.50 x 17.0	N/A	A	drilled only	7480	none	none '	none	7.95	7.49
105179	2505PCB★	Epoxy glass PCB	5.00 x 6.50	11893, 18868, 11949	С	single-sided	2766	7	none	8	9.95	8.95
28193	PCB3	Epoxy glass PCB	5.00 x 8.00	18876	В	plated through	3517	4	mounting area-I/O	4	SALE	19.95
21477	JE407(8006)★	Epoxy glass PCB	5.00 x 13.25	N/A	В	plated through	6500	none	none	8	29.95	26.95
105187	2507PCB★	Epoxy glass PCB	6.10 x 8.80	18876	C	single-sided	4771	7	none	8	13.95	12.49
37621	169P84WE	Epoxy glass PCB	8.50 x 17.0	N/A	A	drilled only	14280	none	none	none	19.95	16.95

VECTOR JAMECO Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application – including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precision standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

· Weight: 0.6 lbs





69577

21531

Product		Size (Inches)	Ter	rminal typ	es	Bus	Edge	1/0	Holes	Power/	Pric	ing
Number	Description	WxL	T44	T49	T421	Interface	Contacts	Connector	Pads/No Pads	Ground Bus	1-4	5-9
CV16	PC/XT/AT 8/16-bit											
	w/ basic circuit built in	4.5 x 13.5	yes	yes	yes	yes	gold	_			\$79.95	\$69.95
JE417★	PC/XT 8-bit	4.2 x 6.5	yes	yes	yes	по	gold	D-sub 9 to 37-pin	plated, with pads	ves	17.95	16.49
PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	no	gold	D-sub 9 to 25-pin	double sided pads	2 separate busses,		
										PWR and ground	27.95	24.95
	Number CV16 JE417★	Number Description CV16 PC/XT/AT 8/16-bit w/ basic circuit built in JE417★ PC/XT 8-bit PCB4 PC/XT/AT 16-bit	Number Description W x L CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 JE417★ PC/XT 8-bit 4.2 x 6.5 PCB4 PC/XT/AT 16-bit 4.25 x 13.13	Number Description W x L T44 CV16 PC/XT/AT 8/16-bit w/ basic circuit built in w/ basic circuit built in 4.5 x 13.5 yes JE417★ PC/XT 8-bit 4.2 x 6.5 yes	Number Description W x L T44 T49 CV16 PC/XT/AT 8/16-bit w/ basic circuit built in W/ basic circuit built built built in W/ basic circuit built built built built built built built built	Number Description W x L T44 T49 T421 CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 yes yes yes JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes yes	Number Description W x L T44 T49 T421 Interface CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 yes yes yes yes JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes no PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes yes no	Number Description W x L T44 T49 T421 Interface Contacts CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 yes yes yes yes gold JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes no gold PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes yes no gold	Number Description W x L T44 T49 T421 Interface Contacts Connector CV16 PC/XT/AT 8/16-bit w/ basic circuit built in W/ basic circuit built in 4.5 x 13.5 yes yes yes yes gold — JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes no gold D-sub 9 to 37-pin PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes yes no gold D-sub 9 to 25-pin	Number Description W x L T44 T49 T421 Interface Contacts Connector Pads/No Pads CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 yes yes yes gold — JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes no gold D-sub 9 to 37-pin plated, with pads PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes yes no gold D-sub 9 to 25-pin double sided pads	Number Description W x L T44 T49 T421 Interface Contacts Connector Pads/No Pads Ground Bus CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 yes yes yes gold — — — JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes no gold D-sub 9 to 37-pin plated, with pads yes PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes no gold D-sub 9 to 25-pin double sided pads 2 separate busses,	Number Description W x L T44 T49 T421 Interface Contacts Connector Pads/No Pads Ground Bus 1-4 CV16 PC/XT/AT 8/16-bit w/ basic circuit built in 4.5 x 13.5 yes yes yes yes gold — — \$79.95 JE417★ PC/XT 8-bit 4.2 x 6.5 yes yes yes no gold D-sub 9 to 37-pin plated, with pads yes 17.95 PCB4 PC/XT/AT 16-bit 4.25 x 13.13 yes yes yes no gold D-sub 9 to 25-pin double sided pads 2 separate busses, PWR and ground PWR and ground 27.95 PMR and ground 27.95 PMR and ground 27.95

See opposite page for circuit board mounting hardware

• See page 56 for aluminum round and hex spacers

SESCOM Aluminum Enclosures NEW

Make your own affordable test fixtures

 Assemble with a #1 Phillips screwdriver · Easy to drill or punch · Great for test fixtures

· Pre-punched panels available

145189 Shown w/ side panels (not included)	
(-



		(7800
Part No.	Description	Dimensions (W x H x D)	1-9	10-49	50-99
145171	Aluminum enclosures	2.0" x 2.0" 1.0"	\$3.95	\$3.49	\$2.95
	Aluminum enclosures	2.0" x 4.0" 1.0"	4.95	4.49	3.95
145197	Aluminum enclosures	2.0" x 6.0" 1.0"	5.95	5.49	4.95

Side Panels . For use w/ P/N 145171 145189 145797

-101 use W/ 1/W 1431/11, 143109, 143/9/								
	Description	1-9	10-49	50-99				
145200	3/8" "D" BNC side panel (2 pcs.)	\$.79	\$.69	\$.59				
145218	DE9 side panel (2 pcs.)	.79	.69	.59				
145226	DB25 side panel (2 pcs.)	.79	.69	.59				

Wire Wrap and Push-In Terminals (for .042" Diameter Holes)

Specifications: • Material: copper alloy • Prebagged 100 pcs. 34155 Miniwrap Wiring Terminals:

Two prong with square tail for wire wrapping

Overall length: .69" • Post size: .025"Sq.

34163 Klipwrap Wiring Terminals

· Three prong with square tail for wire wrapping

• Overall length: .81" • Post size: .025"Sq. 34147 Push-In Micro-Klip Terminals

.025"Dia.





34155

Part	Product	Height Above	Length Below	Weight	100 pc. units	
Number	Number	.062" Board	.062" Board	(lbs.)	1-9	10-24
34155	T44	.065	.530	.02	\$4.95	\$4.49
34163	T49	.200 .	.560	.03	9.95	8.95
34147	T421	_	_	.01	3.95	3.59



\$1,39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less

Documentation available at ttp. jameco.com

Availability!

Protobuilder Packages 20 and 24-Pin Wide NEW

The Accutek family Other uplion of AccuZIP adapter of AccuZIP adapter modules is designed to convert any digital IC in SOIC package to

side-mounted ZIP modules. These

modules can save space on thru-hole boards or replace unavailable monolithic ZIP devices.

- Ûnique low-profile design accepts 20 or 24-pin ICs in wide (.300") SOIC packages
- Motherboard circuit density dramatically increased by up to 65% compared to conventional DIP or SOIC
- · Ideal for use with VMEbus, STDbus, and Multibus II board designs . Weight: .003 lbs.

rait Nu.	Description	1-9	10-24
145437	20-pin ZIP wide (1.0"W x 0.7"H)	\$5.95	\$5.49
145445	24-pin ZIP wide (1.2"W x 0.7"H).	5.95	5.49

8031 Embedded Applications **Proto PC Board**

This prototyping board constitutes a complete system for developing embedded control applications. Allows programming



in assembly language. Efficient software development and rapid hardware prototyping are combined in a single integrated development environment.

- 32KB of SRAM 8031 CPU · 32KB of monitor EPROM
- 14 screw-type terminal blocks connected to general purpose digital input/output ports
- · 40-pin header for all system signals
- Two 23-pin headers for demultiplexed data. address, control, and input/output signals
- Size: 7.0"L x 4.0"W Weight: 1.4 lbs.
- One-year warranty

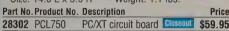
Part No.	Description	Price
119546	Prototype PC board	\$99.95

ADVANTECH PC/XT 8-Bit **Prototyping Card with Basic Circuit Built In**



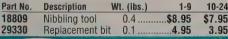
- Terminal types: T44, T49, T421
- I/O address decoder and data/address line buffer
- Jumper selectable memory block sizes
- Bus interface · Gold edge contacts D-sub 37-pin female I/O connector
- Size: 14.0"L x 5.0"H · Weight: 1.1 lbs.

Part No. Product No. Description



AMECO **Nibbling Tool**

- · Perfect for cutting and trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on chassis, printed circuit boards
- and prototype models
 Minimum .375" hole required Size: 7.8"L Part No. Description Wt. (lbs.) 1-9



16-Bit Active Slot PC Extension Interface

Gives you three additional expansion slots with the advantages that external slots provide including the protection and convenience of



- a test environment.
- PC/XT/AT compatibles
- Supports following cards:
- MONO/EGA/VGA/FDC/HDC, game, most I/O Control card installs inside your case with four external slots on the outside
- Two mounting brackets to interface the unit via 37 and 62-pin cables
- Isolates system providing short circuit protection
- · Compatible with 8 or 16-bit cards
- Can be powered off the PC or externally using 6-pin connection (P/N 78318 & P/N 78326, pg 45)
- Replacement fuse: 250V-2A (P/N 103915, pg 60)
- Can insert and remove cards while power on
- · Power indicator LEDs for each voltage
- Size: 9.5"L x 6.8"W x 1.0"H Weight: 5.5 lbs.
- One-year warranty

Part No.	Description	Price
131238	PC slot extender unit	\$279.95

JAMECO PLCC Prototype Adapters

PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with .25" long leads.



- PCB construction
- · Silk screen numbers identify pin numbers in groups of 5 and 10 • Tin plated PLCC connector
- · PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover
- · Gold plated round pins · Weight: 0.1 lbs.

Part Number	Product Number	Pins	Size (L x W)	1-9	10-24
73533	PL28	28-pin	1.4" x 1.1"	\$7.95	\$6.49
73541	PL44	44-pin	2.3" x 1.6"	9.95	8.95
73550	PL68	68-pin	3.4" x 1.6"	17.95	13.95
73568	DI Q/I	84-nin	13" v 1 0"	24 05	12 05

JAMECO 8/16-Bit Solderless Plug-In Breadboard



- · Plugs into an PC/XT/AT or compatible
- 62 data I/O lines and a DB25 connector. for interfacing to peripherals
- · External DB25 female connector
- 24 14-pin IC capacity • 2,352 contact points
- Clearly labeled bus lines
 Durable construction
- Size: 13.8"L x 5.0"W Weight: 1.0 lb.
- · One-year warranty

18809

Number Number	Product Number	Description	1-4	5-9
81672	JE604	8/16-bit breadboard	\$59.95	\$53.95

Bug Boards NEW

Used for testing IC chips without soldering onto a printed circuit board. Direct pin-out connections indicated on board and screw down



terminals for easy wire connections. Add a solder

tail or ZIF socket for plug in/out functionality! Size: P/N 144987: 1.6"W x 1.0"H x .06"thick P/N 144995: 2.9"W x 2.6"H x .06"thick P/N 145007: 3.2"W x 2.6"H x 06"thick

Part No.	Descrip3tion	Wt. (lbs.)	1-9	10-24
144987	8-pin DIP board	.03\$9	9.95	\$8.95
144995	14-pin DIP board	.0510	.95	9.95
145007	16-pin DIP board	.05 1 1	.95	10.49

nins PCI Bus Prototype Board

- All plated through holes
- 0.1" hole spacing
- 50 Mil power and ground grinds
- Provision for wire wrap and bypass caps Impedance matched to bus specifications
- Allows mounting access to every signal on the bus
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W
 Weight: 0.6 lbs

art No.	Description	1-4	5-9
41372	PCI prototype bus brd	SALE	\$69.95
	D.C. DALD.		

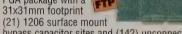
nins PCI Bus Extender Card

- Extends life of motherboard connectors
- Gold plated finger for long life
- Access to all components
- Size: 5.9"L x 5.4"W
- Weight: 0.4 lbs.

Part No.	Description
1/1321	PCI hue avto

ender card\$79.95 BestProto Prototyping Boards

AT/ISA Protoboard Can accommodate a PGA package with a



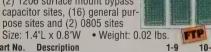
bypass capacitor sites and (142) unconnected sites Includes signal definition chart

Size: 8.2"L x 4.2"W · Weight: 0.2 lbs.

Description 136469 AT/ISA protoboard \$29.95

Stamp Size Prototype Builder (3 pcs.)

- For single chip circuits
- (2) 1206 surface mount bypass capacitor sites, (16) general pur-



Stamp size boards (3). 136451 \$6.95 \$6.25 **PCB Standoff Mounting Hardware**



Easy PC/XT/AT

Prototyping!





AMECO

· Snap "on" · Nylon · Weight: .004 lbs. 28337: 1.2"L x 0.6"W for 0.2" holes 129251: 0.9"L x 0.4"Dia. for 0.2"/0.3" holes

143677: 1.2"L x 0.6"W for .156"/.187" holes

Part No.	Product No.	1-99	100-999	100
28337	PCST	\$.19	\$.15	\$.0
129251	PCST2	15	.12	.0
143677	30117-N	15	.12	.0



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com

Jameco Digital-Analog Lab



Solderless Breadboard

2712 interconnected nickel plated tie points. fitting all DIP sizes and all components with solid leads AWG #22-30 (0.3-0.8mm)

DC Power Supplies

Variable DC output: Output voltage 0 to +15V and 0 to -15V, 500mA +5VDC, 1A; -5VDC, 300mA Fixed DC output:

Function Generator

Frequency range: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz. 1kHz-10kHz, 10kHz-100kHz

0-8 Vpp variable Sine wave output: Triangle wave output: 0-6 Vpp variable Square wave output: 0-8 Vpp variable

Other features:

- (2) variable resistors: $VR1=1K\Omega$, $VR2=100K\Omega$
- (8) data switches $2^{1/2}$ " dia. $8\Omega/.25W$ speaker
- (2) pulse switches (2 sets of output: A, A, B, B)
- (2) banana sockets, (2) BNC jacks 2-digits of segment LED display
- (8) red LEDs with seperate input terminals
- Includes power-cord and manual . One-year warranty
- Size: 12.8"W x 9.8"D x 3.7"H · Weight: 8.5 lbs.

Description 136266 Digital-analog lab\$329.95

Jameco AC/DC Power Supply for **Breadboards**

0 0 0 0 0

With built-in shortproof regulated power

supplies. Indicator

Just plug-in

Indicator
lamps and
power fuses
Just plug-in
and start to use

Output Specifications:
+5VDC, 1A; -5V, 300mA fixed
0 to +15VDC, 500mA variable
0 to -15VDC, 300mA variable
12-6-0-6-12 tapped VAC, 300mA fixed

· Compact and lightweight For both digital and analog circuits

Compatible w/ test leads 77841 (pg 95) Color: beige • One-year warranty

Size: 7.4"W x 5.5"D x 2.6"H
 Weight: 5.5 lbs.

Part No. Product No. Description **77681** JE820 Power supply...\$119.95 \$107.95

PC Hardware Projects V2 (1997

Prompt Publications If you have always wanted to work with stepper motors and need a setup to drill your own PC boards quickly and accurately, this is the book that will help you. (222 pages)
• Size: 7.8" x 9.3"
• Weight: 1.0 lb.

Part No. Description

143280 PC Hardware Projects V2 \$24.95

Build Your Own Home Lab Book (1997)

Prompt Publications This book shows you how to assemble an efficient and inexpensive lab. Includes many projects for creating your own instruments, such as a multichannel oscilloscope switch and a 100 minute timer/stopwatch. (314 pages)

• Size: 7.5" x 9.3" • Weight: 1.3 lbs

Part No. Description 145470 Build Your Own Home Lab...\$24.95 \$22.49

Jameco Powered Project Board

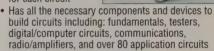
- DC power: +5V @ 1A. variable power 0-15V @ 500mA (screw terminals)
- Input power: 120VAC @ 60Hz
- · Back panel has ground terminal
- · Outputs are short circuit protected
- Model EP-3 edge plate for non-DIP size components
- · Solderless breadboard with 2420 tie points
- Replacement fuse: P/N 103907 (pg 60)
- Power switch with light
 Includes power cord
- Breadboard size: 7.4"L x 6.8"W
- Box size: 9.8"L x 8.0"W x 2.6"H
- · Weight: 6.8 lbs. · One-year warranty

Part No.	Description	1-4	5-9
136258	Powered breadboard	\$99.95	\$89.95

250-in-1 Electronics Project Board

Build 250 different circuits and learn how basic components can be used in so many different applications!

· Includes a manual with a schematic, description and wiring sequence for each circuit



Requires two "AA" batteries and one 9-volt battery (not included)

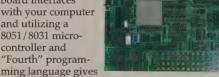
· Requires short and long length wire - see pg 51 and 85 for wire options . Weight: 4.2 lbs.

Fold out case size: 12.5"L x 9.8"W x 2.4"H

Part No.	Description 1-4	5-9
136127	250-in-1 project board\$99.95	\$89.95

CT-100 Microprocessor Lab Board and Manual

The CT-100 lab board interfaces with your computer and utilizing a 8051/8031 microcontroller and



the student or professional engineer an excellent tool to learn and design in both hardware and software microprocessor applications. Perfect aid for teaching the equivalent of a one-semester microcontroller course.

- Clearly marked regions group specific hardware for experiments . Experimental circuits on board
- 8051 signals routed to an ISA expansion slot for PC prototyping • Requires 9VDC @ 2A power adapter or a regulated 5VDC @ 3A power supply (not included – recommend P/N 123246 – pg 65)
- Includes interface card with flat ribbon cable, connecting cables, 6 standoffs, complete user's manual with microcontroller spec sheets and 3.5" software disk
- Board size: 12.3"L x 8.6"W Weight: 3.3 lbs.
- One-year warranty

Part No. Description Price 136101 PC interface lab board. SALE \$299.95 **Jameco Digital Lab**



Solderless Breadboard

1580 interconnected nickel plated tie points. fitting all DIP sizes and all components with solid leads AWG #22-30 (0.3-0.8mm). Horizontal layout.

DC Power Supplies

All DC power supplies equipped with short circuit protection

Variable DC power: Output voltage 0 to +15V

and 0 to -15V +5VDC power supply: Output voltage 5V ± 0.25V

(no load to full load) Maximum output current 1 amp

digital lab!

-5VDC power supply: Output voltage -5V ± 0.25V (no load to full load) Maximum output current 0.1 amp

Two 7-Segment Displays

Common cathode operation

Function Generator (5 ranges)

Frequency range: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz Sine wave output: 0-8 Vp-p variable Triangle wave output: 6Vp-p fixed Square wave output: ±5V fixed

Digital Voltmeter (DVM) 4 ranges Our most popular 3 1/2-digits LED display

0-199.9V, 0-19.99V full scale 0-1.999V, 0-199.9mV full scale

Size: 10.6"W x 13.3"D x 5.0"H (back panel)

One-year warranty • Weight: 8.1 lbs.

Part No. Product No. Description Price 75838 JE800 Digital lab..... \$249.95

Jameco Wideband

This 2nd generation solderless board is ideal for high speed low noise analog and mixed signal circuits Useful for



Shown with cables - not included

testing of instrumentation, signal conditioning, and acquisition circuits.

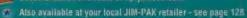
- Low inductance grounding system and power line decoupling circuits for operation over 100MHz
- Four dedicated ground buses and four uncommitted bus lines
- Eight BNCs for signal and power connections
- Side rails for added connectors and power devices, switches
- Working area: 6.5" x 4.3" with 1660 holes (0.1" spacing)
- Size: 7.4"L x 5.1"W x 1.5"H Includes cover
- · Weight: 1.2 lbs. · One-year warranty Description Part No.

Price \$59.95

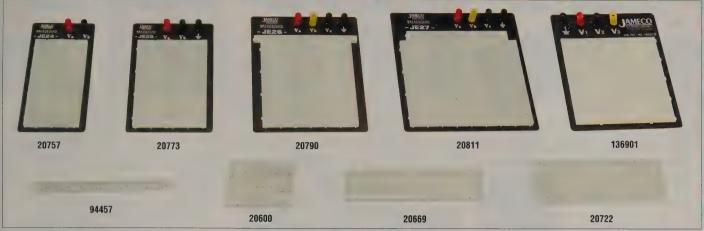




\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less



132177



Jameco's long-lasting breadboards feature screen printed color coordinates and are suitable for many kinds of prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco AC/DC breadboard power supply for both digital and analog circuit **Attention Educators!** Buy jumper wire in bulk and SAVEL requirements. (See page 84)

- · Accepts most electronic components including integrated circuits and transistors for digital and/or analog circuitry
- · Pins are identified by numbered rows and columns
- · Ideal for high frequency and low noise circuits
- 0.1" hole spacing
 One-year warranty · WBU5 and JE series do not interconnect

JE Series Key Features:

- Low static, plastic body CMOS safe
- · Nickel plated clips designed to withstand up to 5,000 insertion cycles
- · Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (see 19289 & 20079 - below)
- Use to breadboard and debug circuit designs
- · Some models feature heavy-duty aluminum backings

WBU5 Series Key Features:

- · Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- · Formed with V-shaped cross-sectional groove, which allows DIP IC pins inserting across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent tightly together

Part	Product	Terminal	Bus	Contact	Binding	Breadboard	Baseplate	Weight		Prici	ng	
Number	Number	Strips	Strips	Points	Posts	Size L x W (In.)	Size L x W (In.)	(lbs.)	1-9	10-49	50-99	100+
94457	JE19	0	2	100	0	6.5 x 0.4		0.04	\$2.49	\$2.25	\$1.95	\$1.49
20600	JE21★	1	2	400	0	3.3 x 2.1		0.13	4.95	4.49	3.95	3.49
136901	WBU504	2	3	1600	4	5.5 x 2.3	7.4 x 6.3	0.90	21.95	19.95	17.95	15.95
20669	JE22★	1	0	630	0	6.5 x 1.4		0.20	5.49	4.95	4.49	3.95
20722	JE23★	1	2	830	0	6.5 x 2.1		0.30	7.95	6.95	6.25	5.59
20757	JE24★	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	11.95	10.95	9.95	8.95
20773	JE25★	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	17.95	15.95	13.95	12.49
20790	JE26★	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	22.95	20.49	18.49	16.95
20811	JE27★	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	30.95	27.95	25.95	23.95

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- For breadboard applications . Weight: 0.04 lbs.
- Asst. (10/pkg.): Yellow (2) White (2) Red (2) Black (2) Blue (2)

100mm 3.94 7.87" 200mm Part Product 10-24 Number Length Color 1-9 Number /Pk 126359 JW50 50mm 10 Asst.\$3.95 \$3.59 JW100 100mm 10 Asst.4.49 3.95 126324 JW200 200mm 10 4.95 4.49 Asst

Double Binding Posts Dual Banana

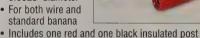
- Screw-mount
- Red/Black design 0.72" between posts
- Size: 1.6"L x 1.4"W
 Weight: 0.04 lbs. 1-9

Part No. Description 125196 Screw mount bind post. \$2.95 \$2.59 \$1.95

1.75" Screw Solder Binding Posts (2)

- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.0625" diameter

(see Hook-up Wire on page 51)



Size: 1.8"L x 0.5"Dia.
 Weight: 0.04 lbs.

1-9 10-99 Part No. Description 100+ Binding posts (2)\$1.49 \$1.25

1" Screw Type Binding Posts (2)

- · 0.16" hole for banana test leads
- · Chassis mount with lock washer and nut
- Solder tab hole: 0.06" diameter
- Requires 0.32" mounting hole
- · For both wire and standard banana
- Includes one red and one black insulated post
- Size: 1.0"L x 0.5"Dia.
 Weight: 0.04 lbs.

Part No. Description 100+ 71239 Binding posts (2)......\$1.19

Jameco 350 pc. Wire Jumper Kit



19289

- 25 each of lengths 0.1 through 5.0 (14 sizes)
- · 350 assorted lengths in 13 colors
- Pre-stripped/pre-formed 22 AWG solid wire jumpers

19289: 350 pieces wire jumper kit

- Handy, durable, clear plastic case
- · Weight: 0.5 lbs.

20079: 350 pieces refill for 19289

· Case not included · Weight: 0.2 lbs.

Part No.	Description	1-9	10-49	50-99	100+
	Wire jumper kit \$9.				
20079★	Refill for 192897.	.95	6.95	5.95	5.35



126341

mm linches

50mm 1.97'

Jameco Vernier Calipers 116134

Metric or Inches · For accurate measurements every time • Measures outside, inside and depth

Easy to read dial gauge Materials: metal

Length: 6" (150mm) · Includes fitted plastic storage case Color: silver
 Weight: 0.7 lbs.

Description (minimum reading) Metal metric (.02 mm)..... (.001 inch) 24.95 Metal inches

Jameco Digital Display Calipers Metric and Inches

Hardened stainless steel

• Display: inches to 1/1000THS mm to 1/100 THS Resolution: 0.01mm(0.0005"

 Interface: serial output RS232C Instructions for making internal,

external, depth and step measurements

 Auto-off after 5 minutes
 One-year warranty Includes fitted case and 1.5V silver oxide battery (Replacement battery - P/N 140783, pg 64)

 Calipers measure to 6 inches/150mm
 Weight: 0.8 lbs. 1-4

Description 127482

\$59.95

Resistor Lead Forming Tools

106884 · Watt size indicates appropriate package size · Bends lead length in .05" increments

Excellent for capacitors . Weight: 0.05 lbs

106884: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"; 5.4"L x 1.5"W **133938:** 1W: 0.8"-1.4"; 2W: 0.9"-1.9"; 5.4"L x 1.8"W

Part No. Product No. Description Lead tool, 1/4-1/2W \$2.95 106884 RLF801 133938 RLF802 Lead tool, 1-2W3.49

Strip-Wrap-Unwrap Tools 34577/34585:

Strips, wraps, unwraps

· Tool tip made of tempered steel Use with 30 AWG wire on .025" square posts

. No solder necessary (see pg 51 for wire)

• Spring steel cutter • 4.5" long • Weight: 0.04 lbs. 34585: • Wrap 1 or 2 turns of insulated portion of wire for secure connections

Part No. Product No. Description WSU30 Wrap-unwrap tool..\$23.95 \$21.49 WSU30M Modified tool.......24.95 22.49 34577

Jameco Crimping Tool

 Heavy-duty metal crimping tool with cutter

· For computer pins and sockets, D-sub 28-26 AWG wire

· For butt-insulated connectors, 26-22 AWG wire

For telephone spade lugs, 26-22 AWG wire

• For non-insulated connectors, 22-20 AWG wire

· For non-insulated connectors, 18-14 AWG wire

· Red insulated handles · Coiled spring return

· Weight: 0.5 lbs Size: 7.3"L x 1.5"W

Part No. Product No. Description 10-24 99442 H202A Crimping tool\$7.95 \$7.25

Jameco 7 in 1 Hand Tools

· Wire stripper, wire cutter, steel wire cutter, pliers and wire loop

· Scale: mm and inch

· Crimping tool · Closed lock

Solderless connector crimper

Size: 6.6"L x 3.0"W • Weight: 0.4 lbs. 18796 Part No. Product No. Description 10-18AWG - red \$3.95 HT104 22-30AWG - yellow .. 4.95 **127870** HT1043 4.49

16-26AWG - blue4.95

Jameco Precision 5 Piece Stainless Steel Plier Set

. 5 pc. set includes: micro cutting nippers (3.5"L), micro round nose pliers (4"L). micro long nose pliers (4"L), micro flat nose pliers (4"L) and micro bent nose pliers (4"L)



35473

Spring return

· Insulated handles

Description Wt. (lbs.) Part No. 0.6.....\$16.95 \$14.95 73120 5 piece set

Jameco Flat and Half Round Long Nose Pliers

· Great for straightening bent IC pins and miscellaneous components or for bending relay springs

Use for making radius bends in wires and components (P/N 35490)

Stainless steel

· Durable rubber handles

· Jaws will not damage parts

• Spring return • 5.3" length w/ 1.4" plier nose

Part No. Product No. Description Wt. (lbs.) 1-9 Flat long nose 0.2\$4.95 Half round 0.24.95 35473 AX102 35490 AX104

Jameco Diagonal Wire Cutter

· Cuts component wire up to 1.2mm thick

· Stainless steel

Spring return

· Durable rubber handles

· Jaws are designed for flush cutting

Weight: 0.1 lbs.

4.3"L x 2.1"W with 0.5" cutting blade

1-9 Part No. Product No. Description \$4.95 \$4.49 35481 AX103 Wire cutter

Jameco Wire Cutters/Strippers

· Red insulated handles

· Spring return

· Tempered steel cutting edge

· Adjustment for wire gauges

Size: 5.0"L x 3.0"W

· Weight: 0.2 lbs. · One-year warranty

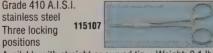
Part No. Description 1-9 10-24 For use with 12-18 AWG wire...\$3.25 For use with 10-30 AWG wire.....3.25 78991

5" Steel Hemostats

Grade 410 A.I.S.I.

· Three locking

positions



Available with straight or curved tip • Weight: 0.1 lbs.

Part No. Product No. Description 115107 HEM01 5" straight hemostat ... \$3.95 \$3.49 115115 HEM02 5" curved hemostat ...

10 Piece Hex Key Wrench Sets

72469 includes 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, and 10mm wrenches

72477 includes 1/16, 5/64 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" wrenches

Description

Metric hex key

Standard hex key

Part No.

72469

72477



.....3.95



79003



Jameco PLCC Surface Mount, **DIP IC and PGA Extractors**





Wt. (lbs.) 16838: 4.0"L x 2.0"W 0.04 4.0"L x 2.0"W 0.06 16766: 132169: 3.2"L x 1.5"W 0.02



Part No. Product No. Description EXD DIP IC ext. ..\$1.49 \$1.25 16838 3.49 3.19 16766 ESM* PLCC IC ext. 3.95 132169 EXP PGA IC ext. ...3.95 3.49

Jameco IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

· Includes a ground terminal

Straightens 8/14/16/18/20/24/28/40/42 pin ICs

· Color/materials: black plastic

Size: 3.3"L x 1.5"W x 0.4"H
 Weight: 0.1 lbs.

Part No. Product No. Description IC pin straightener...\$6.95 99362 ICS01

9 Piece Assorted Drill Bit Kit

 Variety of sizes: .014" to .126" Each kit will vary in contents

of bit sizes . Shank dia.: .125" Includes plastic case

· Weight: 0.1 lbs.

Part No. Description 1-9
131676 9-piece drill bit kit.....\$9.95

\$8.95

Spiral Step Tool Company PC Drill Bits

· Reconditioned carbon steel bits

High quality long lasting cutting edge

· Use for drilling holes in glass PC boards Weight: 0.1 lbs.
 Shank diameter: .125"

Drill Number Dia. No. Application 16580 .040" 59 Plated thru holes \$1.75 \$1.49 16598 .036" 64 IC's, 1/4W resist. 1.95 1.75 .031" 68 IC's, 1/4W resist. 1.95 1.75 16619 .021" 75 Miscellaneous 1.75

Jameco Mini-Drill and Stand

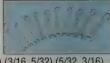
This Mini Drill (26702) is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling and grinding (sanding) attachments. Drill stand (26711) is designed to function like a drill press.



Part No. Product No. Wt.(lbs.) Description 26702 MS398 0.8 Mini drill ...\$29.95 \$24.95 Drill stand ... 19.95 26711 MS399 1.8

10 Piece Open-end/Box Wrench Set

· Includes 10 wrenches w/ the following sizes: (3/8, 7/16) (11/32, 3/8) (5/16, 11/32) (9/32, 5/6) (1/4, 9/32) (7/32, 15/64)



(15/64, 1/4) (13/64, 7/32) (3/16, 5/32) (5/32, 3/16)

Material: alloy steel
 Weight: 0.3 lbs.

Part No. Product No. Description 3.49 99602 WS608 10 pc. wrench set.....\$8.95 \$7.95



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less

0.5..

Documentation available at ttp.jameco.com Also available at your local JIM-PAK retailer - see page 128

Jameco 11 Piece Tool Kit

- (2) Slotted screwdrivers: 1/8", 3/16"
- (2) Phillips screwdrivers: #0, #1
- (2) Nut driver: 3/16", 1/4" • (2) Torque screw-
- drivers: T-10, T-15
- Tweezers
 3-claw parts holder 14-16 pin IC inserter/straightener
- 14-40 pin IC extractor
 Black vinyl carrying case Size: 9.0"L x 5.8"W x 1.3"H
 Weight: 1,2 lbs.

Part No. Description 14189 Computer service tool kit.. \$14.95

Jameco 66 Piece Tool Kit

Comprehensive Kit for Field **Technicians and Engineers!**

Aluminum case features removable pallets, surfacetype locks. a black plastic handle, side buckles and a strap. See matrix below for

list of tools.



• Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs. Part No. Description

66 piece tool kit......\$179.95 \$161.95 105646

Jameco 51 Piece Tool Kit

Essential Kit for Electronic Machine Maintenance and Repair Jobs!

See matrix below for list of tools. Black vinylcovered case features removable pallets, a combination lock and a cushioned, black plastic

handle.



Size: 12.5"Lx 17.5"W x 3.5"H • Weight: 10.4 lbs

Part No.	Description	1-4	5.
26681	51 piece tool kit	SALE	\$99.9
Parts Inc	luded in Kit	136311 135968 2668	1 10564

Parts Included in Kit	136311	135968		105646
Carrying case	X	X	X	X
7-piece hex key wrench	X	X	X	X
Electrician's tape			X	
Needle nose pliers	X	Х	X	X
Bent needle nose pliers	X		X	
Diagonal cutting pliers	X	X	X	X
Flat nose pliers	X	X	X	X
Tweezers	2	X	X	X
Heavy-duty utility knife	X	X	X	X
Stainless steel scissors			Х	X
Adjustable wrench	X	· X	X	X
30 watt soldering iron	X	X	Х	X
Desoldering pump	X	Х	X	X
Soldering stand			X	Х
Rosin core solder	X	X	X	X
Brush	X		Х	X
Brush and scraper			X	X
Fine point probe			X	X
Slotted probe			X	X

Jameco 26 Piece Hobby Tool Set

 6 screwdrivers (Phillips #0, #1, slotted 0.05", 0.08", 0.09", 0.12"

• 10 bits: 5, 6mm #No.1, #No.2, No.1. No.2.



T-10, T-15, T-20, socket adapter

- Handle Extension bar
- Stainless steel tweezers Sockets: 5, 6, 8, 10mm
- 4" long nose pliers • 4" side cutter
- · Plastic carrying case · Weight: 1.2 lbs.

Part No. Description 99629★ 26 piece tool set\$19.95 \$16.95

Jameco 55 Piece Tool Kit

An assortment of tools for general and precision work for technicians, engineers, students, etc.



the tools listed (see matrix below), the kit includes:

- 8" lineman's pliers - screwdriver handle
- 6 piece mini-hammer set - heat sink
- 5 piece of double edge blade
- 3 piece solder aid
- · Carrying case has outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (see pages 91, 93 & 94)
- Case size: 17.6"L x 12.8"W x 4.0"H
- · Weight: 9.2 lbs. · One-year warranty

Part No. Description 136311 55 piece tool kit\$119.95

Jameco 26 Piece Tool Kit

Excellent Kit for Electronics Repair and Maintenance!

See matrix below for list of tools.

- 2-in-1 carrying case has separate pocket to carry documents
- Weight: 7.0 lbs.

• Size: 16.0"L x 12.0"W x 4.0"H

Part No. Description 1-4 135968 26 piece tool kit. \$79.95

Parts Included in Kit	136311	135968	26681	105646
Utility components box			X	X
6 precision screwdrivers	X		short	
Screwdriver set	2-pc	6-рс	10-pc	11-pc
Needle files	5		2	5
Long nose pliers with cutter				X
5-way crimping tool	7-way			Х
10-piece mini wrench set				X
3-prong holder	X			X
Electrical test screwdriver		X		X
Anti-static strap	X			X
Cassette head cleaning fluid				X
Compact disc spray cleaner				X
Mini vacuum cleaner				X
Mini drill				X
Hobby vise				X
Mini-flashlight	X			
IC extractor	Х	X		X
Digital multimeter			Χ	
10 foot measuring tape		Χ	X	

Jameco 40 Piece Tool Kit

Includes: IC inserter with pin straightener. IC extractor, extra long 3-claw parts holder, slotted and Phillips screwdriver bits.



metric nut driver sockets (6mm-12mm), S.A.E nut driver sockets (3/16"-1/2"), reversible torquescrewdriver bits (T10-T25), potentiometer alignment tools, adapter bit for sockets, wire cutters and stripper and pocket clip screwdriver.

- · Zipper vinvl case
- Size: 9.5"L x 6.8"W x 1.4"H
 Weight: 1.7 lbs.

Part No. Description 119183 * 40 piece tool kit\$17.95 \$14.95

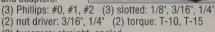
22 Piece VCR Tool Kit

- 7 special tools for VCR alignment/repair
- Protective vinyl pouch
- VHS. VCR head puller
- 3 reversible flat & Phillips screwdrivers: 7.5"L. 0.24"Dia., 0.19"Dia., 0.12"Dia
- · Micro screwdriver: 0.1"Dia. No.0 x 1.32"L Phillips
- Hex wrench set qty: 8 (0.03"Dia. 0.13"Dia.)
- Spring hook tool
 Weight: 1.6 lbs.

Part No. Description Price 22 piece tool kit\$34.95 99611

Jameco 15 Piece Computer Service Tool Kit

- Antistatic wrist strap
- 8 and 20 pin IC inserters
- IC extractor
- · Screwdriver handle w/ 3.75" extender
- and adapters:



- (2) tweezers: straight, angled
- Probe (logic & voltage +/-) · Black vinyl carrying case
- Size: 9.0"L x 5.8"W x 1.3"H Weight: 1.9 lbs.

Part No. Computer service tool kit \$4.95

Jameco 8 Piece Insertion & **Extraction Tool Kit**

· Six IC insertion tools for: 8. 14/16, 18/20, 22 24/28 and 32/40 pin ICs

 Universal extraction tool with insulated handle



 Black vinvl carrying case with zipper

Size: 7.8"L x 5.0"W x 1.5"H
 Weight: 0.6 lbs.

Part No. Description 104707 IC insertion/extraction tool kit ... SALE \$17.95



Price





Bench Top PC Board Holder with Soldering Stand

- · Holds PC boards up to 13" wide
- · Can be adjusted by using press release and sliding support arm to hold desired size board



• Size: 19.5"L x 8.8"W x 8.8"H • Weight: 4.6 lbs.

Part No. Description Soldering stand Closeout \$19.95 133065

Jameco Clamp Vise

- · Lightweight, sturdy construction
- · Nylon jaws open 2"
- · Ball cup allows vise to adjust to any angle



· No tools needed - finger turn to tighten

Size: 10.0"L x 2.5"W
 Weight: 2.1 lbs.

Part No. Description 127167

Jameco Third Hand

- · Frees your hands for soldering
- · Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens · Quick and easy rotation
- · Sturdy, heavy base
- Weight (P/N 26690): 0.7 lbs. (P/N 72864): 1.4 lbs. Part No. Description



72864

1-9 10-24 Third hand..... \$4.49 72864 Third hand w/ soldering holder..7.95

PAMAVISE Vacuum Vise

- · Features the patented "split ball" that will tilt, turn and rotate through three planes
- Nylon jaws open a full 2.25 · Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- · Weight: 3.3 lbs.
- · One-year warranty

Part No. Product No. Description 27131 M381 Vacuum vise.....

Price\$59.95

Electronic Work Center

- · Circuit board holder, standard base, tray base mount, solder station, sponges, and wire holder included
- Size: 8.5"W x 7.8"H
- · Weight: 5.3 lbs.
- · One-year warranty

Part No. Description 27060

Electronic work center..... .\$79.95

PANAVISE PVir. Vice

- Jaws open to 2.8", are 1"W x 2 and are heat tolerant to 350°F
- · Vertical/horizontal jaw grooves help hold work
- · Fine/course adjusting knob
- · The vise neck tilts, turns and rotates
- Base bolt is 4.3" and fits all PanaVise base mounts
- Vise height: 6.8"
 Weight: 1.4 lbs.
- One-vear warrantv

AMECO

Part No. Description 134439 Jr. vice w/ mountable base\$21.95 72768 13 blade knife set

Economy Punch-Down Tool

- Terminates 66-type bifurcated terminals
- Reversible blade one end terminates and the other terminates and cuts the wire



Handle made of polyacepal resin and fiberglass

Handle size: 5.6"L x 1.2"W x 1.1"H • Weight: 0.1 lbs. 133161: • Weight: 0.03 lbs. • One-year warranty

Part No. Description 1-4 Punch-down tool w/ blade...\$19.95 \$17.95 133153 133161 Punch-down 110 blade.....9.95

Weidmuller ₹ Paladin Tools Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable springloaded impact mechanism and spare storage blade in the handle. 124142:



· For 66-type bifurcated terminals · One-year warranty • Size: 7.0"L x 1.4"W x 1.1"H Weight: 0.4 lbs.

124151: Punch-down blade for 110-type terminals Weight: 0.1 lbs.
 One-year warranty

Description Punch-down tool w/ blade...\$49.95 \$44.95 Punch-down 110 blade......14.95 124151

4 Piece Alignment Tool Set

· Includes 4 plastic alignment tools with multiple functions Flat screwdriver function

& hex . Weight: 0.1 lbs. Part No. Product No. Description



(4) 0.22"Dia. x 5.65"L (1) 0.12"Dia. x 5.65"L

(1) 0.11"Dia. x 5.65"L

· Material: tool steel · Weight: 0.2 lbs Part No. Product No. Description 100360 FS108F 8 piece file set \$8.95 \$7.95

Vac Tweezer

Pick and place small parts of all kinds, glass slides, coins, optics, SMDs, film or any other small items. Contains:

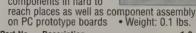


(5) pad sizes- 0.140" to 0.400", (5) straight tips, (2) 45° angle tips • One-year warranty
• Size: 2.9"L x 0.6"W • Weight: 0.1 lbs.

Part No. Description Vacuum pick & place kit \$29.95 \$26.95

4 Piece Steel Tweezer Set

- 4 different style stainless steel tweezers, including one self-locking
- Ideal for picking up small components in hard to



Part No. Description 1-9 10-24 4 piece tweezer set.....\$6.95 \$6.25

Deluxe Precision Knife Set

- · Three different knife handles fine work, medium and heavy duty power grip
- 13 different types of blades included Weight: 0.4 lbs.

 Size: 6.3"L x 2.8"W x 1.4"H Part No. Description



10-24**\$7.95 \$6.95 34067** TS67

8 Piece Electrician Screwdriver Set

Eight screwdrivers Insulated handle and blade protection-up to 1000V

Four flat points: 0.24"Dia. x 9.91"L; 0.2"Dia. x 8.92"L 0.16"Dia. x 7.54"L; 0.1"Dia. x 6.10"L

One flat point with Buz light: 0.16"Dia. x 7.4"L

Three Phillips: No. 0, 0.1"Dia. x 6.10"L; No.1, 0.16"Dia. x 7.54"L; No.2, 0.24"Dia. x 9.91"L

Material: chrome-vanadium • Weight: 1.2 lbs.

Part No. Product No.Description 99688 SD315B 8 pc. screwdriver set.. \$9.95

6 Piece Electronic Screwdriver Set

· Three flat points: 0.09"Dia. x 6.65"L; 0.12"Dia. x 6.64"L; 0.16"Dia. x 9.61"L Three Phillips:



No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L • Weight: 0.4 lbs. Part No. Product No.Description

99451 SD3106 6 pc. screwdriver set..\$7.95

6 Piece Screwdriver and Pliers Set

- One micro cutting nippers
- · One micro flat nose pliers Two flat
- points: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L

Two Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L • Weight: 0.5 lbs. Part No. Product No.Description

99565 SD3105 Screwdriver/plier set .. SALE

6 Piece Precision Screwdriver Sets

• 34041 includes 3/64" 1/16", 5/64", 5/32", 1/8" and 9/64" slotted screwdrivers . Weight: 0.3 lbs.

34059 includes 3/64"#0,

1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 **34041** and 9/64"#1 Phillips screwdrivers • Weight: 0.2 lbs. Part No. Product No. Description 1-9 10-24

34041 TS59 Slotted screwdriver set \$2.95 34059 TS60 Phillips screwdriver set 2.95

Electrician's Insulated Nut Drivers



140960 140927 140978 140935 140951 140943 140919 Molded shaft insulation to help protect against accidental power contact • Weight: 0.3 lbs.

Part No. Description 140919 3/16" insulated nut driver...... SALE \$2.95 140943 1/4" insulated nut driver...... SALE 2.95 140935 5/16" insulated nut driver...... SALE 2.95 140951 11/32" insulated nut driver...... [SALE] 2.95 140978 3/8" insulated nut driver...... SALE 2.95 140960 7/16" insulated nut driver...... SALE 2.95 140927 1/2" insulated nut driver.... 2.95

5 Piece Precision Nut Driver Set

- · Includes one each of the following nutdrivers: 1/8", 5/32", 11/64", 3/16"



99.7% Stock

Prec. nut driver set....\$2.95 \$2.65

\$1,39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less

Also available at your local JIM-PAK retailer - see page 128 Availability

IAMECO Universal EPROM Programmer NEW

Serial Port with Windows® Drivers

- Programs serial PPROM, MPU/MCU, PLD, EPROM, EEPROM, BPROM, Pals and Gals
 - . On-off switch to increase life of unit
- 40-pin universal ZIF socket
 Full screen buffer editor
- File formats supported: Intel Hex and Hex-32 extended hex, Motorola Hex, Tektronix Hex, TI SOSMAC hex, Straight Hex, MD16Hex, Digital Research Hex, and Binary
- · 4-way and 8-way binary file shuffler · 2-way and 4-way word binary file splitter and file shuffler
- System requirements: IBM 486/Pentium® or compatible PC, approx. 10 to 20MB of free disk space, Windows® 3.x/Windows® 95, one free serial port
- Includes 5' 10" power cord, 41" cable with two 9-pin D-type connectors, DE9-DB25 adapter, (5) 3.5" software disks, device list and manual • Size: 9.5"L x 9.0"W x 2.0"H • Weight: 5.5 lbs. • One-year warranty

Part No. Universal EPROM programmer serial port with Windows® drivers\$999.95 145331

IAMECO 1 Socket 16KB-512KB E(E)PROM Programmer



- EPROMs, EEPROMs
- Programs 16Kbits to 512Kbits EPROMs
- · Programming speeds/algorithms: normal, intelligent, and quick pulse
- File formats supported:
- Intel Hex, Motorola S Hex, Tektronix Hex, and binary Address available: 200, 210, 220, 230, 240, 250,
- 260, 270, 280, 290, 2A0, 2B0, 2C0, 2D0, 2E0, 2F0
- Menu driven software • Maximum pins: 28 · 2 & 4-way binary file splitting and shuffler programs
- · Full screen buffer editor One-vear warrantv
- Includes adapter card, software, manual and 3' cable
- Size: 7.0"L x 5.5"W x 1.8"H
 Weight: 2.4 lbs.

Part No. Description 101400 1 socket 16Kbits-512Kbits\$129.95

IAMECO 4 Socket 16KB-8MB E(E)PROM Programmer



- · Programs EPROMs, EEPROMs, and Flash memories
- · Programs 16Kbits to 8Mbits EPROMs
- · Programs up to 4 chips simultaneously
- Programming speeds/algorithms: normal, intelligent, and quick pulse
- File formats supported: Intel Hex, Motorola S Hex,
- Tektronix Hex, and binary Maximum pins: 32 Address available: 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 2A0, 2B0, 2C0, 2D0, 2E0, 2F0
- Menu driven software Full screen buffer editor
- 2 & 4-way binary file splitting and shuffler programs
- Includes adapter card, software, manual and 3' cable
- IBM PC/XT/386/486 compatible
- Size: 7.0"L x 5.0"W x 1.3"H Weight: 2.8 lbs.
- One-year warranty

Part No. Description 132556

Price 4 socket 16Kbits-8Mbits..... \$269.95

Applied Reader Jechnology 1 Socket 1MB and 8MB **EPROM Programmers**

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• Interface: RS232

ZIF socket

Specifications:

- Operating voltage: 115 VAC Power consumption: 8VA
- · Connector: DB25 (female)
- Will work with any serial communication software such as Procomm Plus
- . Motorola s1f, s2f and s3f can convert to binary or ASCII prior to down load
- Baud rate configurable per one digit commands (no faster than 19,200 bps)
- Data bits: 8 · Start/Stop bits: 1
- · Parity: none, even, odd, default none
- · Data formats: Motorola s1f, s2f, s3f
- · Flow control: none, RTS/CTS, XON/XOFF, Default RTS/CTS One-year warranty
- Dimensions: 6.5"L x 4.0"W x 2.3"H

82384: • Programs all current EPROMs up to 512Kbits and the Intel 27CO11 (1Mbits); 2716-27512; 2804-8256; also 27CXXX and 28CXXX series • Maximum pins: 28

Selectable VPP from 5V-25V
 Weight: 2.4 lbs.

81699: • The command line interpreter enables the user to enter one or more single character · Maximum pins: 32 commands at once

- Programs EPROMs up to 8Mbits: 2716-27080; 2804-28256; also 27CXXX and 28CXXX series
- · Weight: 3.0 lbs.

Part No.	Description	Price
82384	1Mbits EPROM prog.	\$189.95
81699	8Mbits EPROM prog.	219.95

JAMECO 1 Socket 16KB-8MB E(E)PROM Programmer

 Programs EPROMs. EEPROMs, and Flash memories

 Programming speeds/algorithms: normal, intelligent, and quick pulse

· Menu driven software

- File formats supported: Intel Hex, Motorola S Hex, Tektronix Hex, and binary • Maximum pins: 32
- Address available: 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 2A0, 2B0, 2C0, 2D0, 2E0, 2F0
- 2 & 4-way binary file splitting and shuffler programs
- Includes adapter card, software, manual and 3' cable
- Full screen buffer editor · One-year warranty Size: 7.0"L x 5.0"W x 0.7"H
 Weight: 2.3 lbs.

Part No. Description 16Kb-8Mb E(E)PROM prog. \$189.95 132468

JAMECO Parallel Port 16KB-8MB **Universal IC Programmer/Tester**

- · Parallel port interface
- 40-pin universal ZIF socket
- · Programs PROMs. EPROMs. EEPROMs, Flash memories, bipolar PROMs PALs, PLDs. GALs & MPUs

· Functional testing of 7400, CD4000, CD4500, series logic



additional adapters may be special ordered

devices and DRAM and SRAM memory

- Electronic device identification for TTL Programs 16Kbits to 8Mbits EPROMs
- Includes: programmer, cable, menu-driven
- software and user's manual System requirements: 286/386/486/Pentium® or
- compatible PC; 2MB memory, 3.5" floppy disk drive, MS-DOS version 3.3 or later. Hard disk drive
- Cable length: 3.3'
 Color: gray
 One-year warranty • Size: 11.2"L x 9.6"W x 2.4"H · Weight: 8.6 lbs.
- Part No. Description

137023 Parallel univ. programmer/tester......\$799.95

IAMECO 1 Socket 16KB-8MB

Universal IC Programmer and Tester



· Programs PROMs, EPROMs, EEPROMs, Flash memories, Bipolar PROMs PALs, PLDs, GALs & MPUs

- Functional testing of 7400, CD4000, CD4500, series logic devices and DRAM and SRAM memory
- Electronic device identification for TTL
- Programs 16Kbits to 8Mbits EPROMs
- Includes On-Off switch to increase the life of the unit. (Programmer is not automatically turned on every time the computer is powered up This prevents unnecessary wear of the unit.)
- Anti-static pad on the unit provides a convenient place to put ICs while you work with them
- 40-pin universal ZIF socket Maximum pins: 40
- Programming speeds/algorithms: normal. intelligent, interactive, quick pulse, and flashrite
- Manufacturer and part number selection to ensure correct programming method
- File formats supported: Intel Hex, Motorola S Hex, Tektronix Hex, JEDEC and binary
- Address available: 278, 378, 3BC
- 2 & 4-way binary file splitting and shuffler programs
- · Full screen buffer editor
- Includes: programmer, PC interface card, cable, menu-driven software and user's manual
- System requirements: PC/XT/AT/386/486 or compatible PC; maximum clock speed 50MHz, turbo mode; minimum 640Kbits memory, minimum one 5.25" floppy disk drive, MS-DOS version 3.0 or later. Hard disk drive recommended
- Cable length: 3.3'
 Color: gray
 Weight: 7.6 lbs.
- Size: 11.3"L x 9.8"W x 2.5"H · One-year warranty Price

Description 104651 Univ. IC programmer/tester.\$649.95

PC Interface Card and Cable

 Weight: 0.7 lbs.
 One-year warranty Part No. Description

Card/cable for univ. prog.\$49.95 \$44.95 132450



האדאה Hand-held EPROM Programmer/Emulator As seen in Circuit

• 512Kbits of RAM

Cellar Magazine Supports EPROMs, EEPROMs and Flash memories up to 8Mbits

· Self-powered and completely portable - ideal for field service work

· Can operate for several days on its internal Ni-Cad battery, which can be fully recharged in less than an hour while programming

· CMOS memory retains data you load into it, even when the unit is off

• Full 24 byte on-screen editor

· Big, easy-view 80 character supertwist LCD Maximum pins: 32

FREE Size: 7.0"L x 4.0"W x 2.0"H custom terminal software · Weight: 3.2 lbs · One-year warranty

Description EPROM programmer..... 124003

.\$749.95

ware upgrades for life

FUNCTIONS

Stand alone mode

Functions Set - Blank check

IC Type select - Program

Remote control mode

- Read - Program - Disk - Help

Verify and check sum

- Process - Paramete

Verify - Disk

FREE

ulation leads

512K-Two Socket E(E)PROM Programmer

A compact unit that operates in two modes: "STAND ALONE MODE", which allows you to use it as a portable unit or in "REMOTE CONTROL MODE", which uses software to interface with your printer port.

· Programs EPROMs up to 25V, Flash EPROMs 5V and 12V, EEPROMs, and SRAMs

· 2 socket for master/ slave operation

· For stand alone mode use 1-2 (9V) batteries (not incl.) or 9VDC adapter (included)

Includes manual, cable, and 3.5" disk

Size: 6.4"L x 4.3"W x 2.2"H

 Weight: 2.1 lbs.
 One-year warranty Part No. Description

130155 EPROM writer\$279.95 \$249.95

Telulex 20MHz Synthesized Function/Arbitrary Waveform Generator

· Synthesized signal generator DC-20MHz, 0.1Hz resolution, DC offset, .001% frequency accuracy; Internal/external AM, FM, PM, FSK, dualtone, sweep and more



Arbitrary waveform generator 40 megasamples/second, 32,768 points, 12-bit DAC

 Function generator ramps, triangles. exponentials, noise & more to 2MHz

· Pulse generator digital waveforms with adjustable duty cycle

 RS232 remote control
 TTL/CMOS SYNC output Size: 10.2"L x 9.3"W x 5.1"H
 Weight: 6.6 lbs.

· One-year manufacturer's warranty

Part No. Product No. Description Price 142842 SG100A 20MHz function/arb. gen. \$999.95

ARISTO Simcheck II® Advanced **SIMM & DIMM Memory Tester**

This tester can pay for itself in less than a day! NEW

The Simcheck II tester has many advanced features and sophisticated circuitry, yet is easy to use. The fully automatic tests detect EDO, FPM, Static Column modes.



· Portable stand-alone advanced memory tester

Tests all standard 30 and 72-pin SIMM memory modules—maximum capacity is 4Gx40 High speed 32-bit processor gives fast results

Four line graphic LCD display shows clear test results: size, speed (+/1 1ns), module type, true cycle time

Tests include Innovention's patented Chip Heat Mode Built in PC serial interface allows printing & logging Flash EPROM for internet software upgrades

Expansion ports support optional adapters and interfaces for Automatic Handlers and a parallel printer

Advanced setup modes allow for custom user defined tests · 6 function control keys

· One-year warranty Size: 9.5"L x 6.3"W x 1.5"H
 Weight: 4.1 lbs.

Part No. Description 144856 Simcheck II® advanced tester... \$ALE \$1995.95

Simcheck Plus® SIPP & SIMM Tester

 Tests all standard 30-pin SIMM and SIPP memory modules up to 16M x 8/x9

Tests 72-pin SIMMs up to 32M x 36

4 function control keys · One-year warranty Size: 6.8"L x 5.0"W x 1.5"H
 Weight: 5.1 lbs.

Part No. Description

JAMECO EPROM Eraser

· Erases all UV erasable EPROMs

· Holds a total of 16 pieces of 32-pin EPROMs

· Has an upper and a lower chamber for erasing

· Includes a variable timer which turns eraser off at the end of the selected time period; can be set between 10 to 60 minutes

AC adapter included (9VDC @ 600mA)

Special conductive foam liner eliminates static build-up

Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.

One-vear warranty

Part No. Description 1-4 5-9 121267 EPROM eraser\$129.95 \$116.95

Linear IC Tester

Identify and test op amps, comparators, optocouplers, transistor arrays, analog switches and voltage regulators.

• Tests 14 to 24-pin devices

· Display: 16 x 1 character LCD dot matrix

· Auto feature lists type and device number

• Uses (2) 9V batteries or 9V DC adapter (included) Size: 6.4"L x 4.4"W x 1.8"H
 Weight: 1.7 lbs.

 One-year warranty Part No. Description

1-4 130147 Linear IC tester......\$699.95 \$649.95

AMECO Portable IC Tester

Our hand-held IC tester is an easy-to-operate, cost effective unit that includes excellent functions.

. Tests 14 to 20-pin devices

Identifies unknown part numbers

· Hand-held unit for complete portability · Includes test, search, type and reset keys

16 character easy-to-read LCD displays results

· Battery included On-off switch

20-pin text tool ZIF socket

Supports the following: TTL Series [7400, 74LS00, 74F00, 74S00, 74ALS00, 74H00, 74L00, 74C00, 74HCT00,74HC00] CMOS Series [CD4000, CD4500] DRAM 41 Series [4164, 41256, 411000] DRAM 44 Series [4416 (41416), 4464 (41464), 44256 (414256)]

· Color: black Size: 7.0"L x 3.6"W

· Weight: 1.0 lb. · One-year warranty Recommended P/N 15309 as optional

DC wall transformer (pg 63) Part No. Description

73525 Portable IC tester.... \$149.95 \$134.95

EPROM Erasers and Accessories

Erases all EPROMs Erases 1 chip in 15 minutes

· Erases 8 chips in 21 minutes

 Maintains constant exposure distance of 1'

Special conductive foam liner 15712 eliminates static build-up

· Built-in safety lock to prevent UV exposure

Complete with holding tray for 8 chips

UV intensity: 6.8mW/cm

• Size: 9.0"L x 3.7"W x 2.6"H • Weight: 2.3 lbs.

· One-year warranty 66042:

· Erases all EPROMs

· Erases 1 chip in 7 minutes

Special conductive

foam liner eliminates static build-up Battery operated. Four "AA" batteries required (not included). Recommended P/N 32627 (see below)

UV intensity: 6.5mW/cm²

Size: 6.8"L x 1.5"W x 2.3"H
 Weight: 0.8 lbs.

· One-year manufacturer's warranty Part No. Description

\$99.95 66042 UVP portable EPROM eraser SALE **Accessories** Part No. Description 34382 Replacement lamp for 15712...\$29.95 \$26.95 Conductive foam(12"x24"x0.25")...9.95 8.95

JAMECO IC Function **Tester/Emulator**

'AA' Ni-Cad batteries (for 66042) .. 2.95

 Any DIP type IC up to 40-pins can be inserted into the universal TEST TOOL socket for function emulation

 A 360 tie point solderless breadboard provides free wiring space for any additional circuits

Size: 10.0"L x 6.5"W x 1.5"H

Weight: 1.5 lbs. One-year warranty Closecol

Part No. Description 111907 Tester/emulator (52 in stock).

OEM Pricing

\$49.95



\$1.39 Sale price coad in this quantity only SALE Sale price to me right of banner good for their quantity. It less. FTP Occumination available of hypersecond

* Also uvillante al your local JIM-PAK retailer - see page 126



3½-Digit Multimeter 🗓 շ 🕕

Large easy to read display • Battery test: 1.5V & 9V AC voltage: 200mV-750V • DC volt.: 200mV-1000V

AC/DC current: 200µA-10A . Diode test

Resistance range: 200Ω - $20M\Omega$ • Continuity test Size: $3.3\text{"W} \times 1.3\text{"D} \times 7.3\text{"H}$ • Weight: 1.5 lbs· Weight: 1.5 lbs. One-year manufacturer's warranty
 See photo right

Part No. Product No. Description DM311 Multimeter......\$49.95 \$44.95

33/4-Digit 3200 Count Auto and **Manual Ranging Multimeter**

1228

Arcing bargraph display

10A input jack protection
Auto power off (15 min.)
Diode test
Data hold mode

AC/DC voltage: 750V/1000V AC/DC current: 10A

 Resistance range: 32MΩ Size: 3.8"W x 1.8"D x 7.6"H

 Weight: 1.5 lbs. One-year manufacturer's warranty

Part No. Product No. Description DM333 Multimeter\$69.95 \$62.95 101936

3³/₄-Digital Multimeter with (4) Frequency Measurement c(VL)

 AC/DC voltage: 750V/1000V
 AC/DC current: 10A · Diode test

Resistance range: $40M\Omega$

 Overload protection voltage Auto power off

 Frequency measurement: 10-1MHz
 TR life check Size: 3.8"W x 1.8"D x 7.3"H • Weight: 1.5 lbs.

One-vear manufacturer's warranty

Part No. Product No. Description **121161** DM332 Multimeter \$99.95 \$89.95

Benchtop Digital Multimeter



 4½ digit display, 5-digit green LED, 19999 count Vdc basic accuracy of 0.05% • Full overload protection

Frequency measurement up to 200kHz · Continuity check with beeper · True RMS in AC range

Data hold, diode check, TR hfe measurement available 600V overload protection in resistance range DC voltage: 200mV-1000V • AC voltage: 200mV-750V

DC/AC current: 2mA-10A • Resistance: 200Ω -20M Ω Size: 9.9"L x 9.8"W x 3.6"H • Weight: 6.1 lbs.

One-year manufacturer's warranty

Description 132564 Digital multimeter.....\$229.95 \$206.95

20MHz Dual Trace Oscilloscope with 1MHz Function Generator



- Basic specs same as OS5020P (right above) plus.
- 1MHz function generator built in
- Frequency range: 0.1Hz to 1MHz (7 ranges)
- Output waveform: sine, triangle, square, TTL pulse Output impedance: 50Ω Output voltage: 14Vp-pPower requirements: AC100/120/220/240V 50/60Hz-45W
- Size: 12.6"L x 12.6"W x 6.8"H Weight: 23.8 lbs.
- Two-year manufacturer's warranty

Part No. Product No. Description 94650 OS9020G Function generator......\$499.95 100MHz Oscilloscope



DC to 100MHz, 2-ch dual trace

· Signal delay with delay line

 Auto focusing according to the change of intensity

Size: 16.9"L x 12.6"W x 5.5"H Weight: 22.8 lbs.

Two-year manufacturer's warranty 100MHz purchase Part No. Product No. Description 121179 OS9100P Oscilloscope......\$949.95

DM311 free meter w/

20MHz Dual Trace Oscilloscope



. 6" rectangular high resolution blue CRT with internal graticule & scale

 Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps

• Horizontal deflection: .2µS/div to .2S/div in 19 calibrated steps, 1-2-5 sequence

· Max signal input voltage: 250V (DC and peak AC)

 Power requirements: 98-125VAC @ 1A. 198-225VAC @ 0.5A, 50/60Hz, 45W

· ADD function measures sum of two signals

• Includes: two 40MHz probes (X1 & X10), power cord, manual, schematics, block and wiring diagram

Size: 16.4"L x 12.6"W x 5.3"H
 Weight: 20.8 lbs.

Two-year manufacturer's warranty

Part No. Product No. Description Price 136098 OS5020P 20MHz scope\$399.95

2MHz Function Generator

 Frequency range: .02Hz to 2MHz

Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine

Variable waveform/duty cycle symmetry



Linear sweep control from 1:1 to 100:1

 DC offset voltage from 0 to ±10V can be superimposed to output waveform

 Output volt.: 20Vp-p (open circuit) 10Vp-p (into 50Ω) · Power requirements: 110V/220V 50/60Hz, 20W

 Includes: power cord, BNC to clip cable, fuse and manual • One-year manufacturer's warranty

Size: 10.0"L x 8.0"W x 3.0"H
 Weight: 5.4 lbs.

Part No. Product No. Description 66069 FG8002 Function gen.\$199.95 \$179.95

100MHz Oscilloscopes

DC to 100MHz bandwidth

Dual time base HF/LF reject

trigger filters · Delayed sweep cursor readout.



autoset functions, audible knobs • Blue CRT for higher resulution · Channel 1 output • 5ns / div. fast sweep rate

· 400V max. input voltage · SMT motherboard

 Weight: 23.0 lbs. Two-year warranty Part No. Product No. Description

143773 OS5100RA 8 trace 4 channel......\$1649.95 143765 OS5100RB 4 trace 2 channel........1399.95

2MHz Sweep Function Generator with 4-Digit Green LED **Frequency Counter**

 General specifications same as FG-8002 (left below) plus.... Output

impedance: 50Ω or 600Ω

 Counter: frequency range: 2Hz to 2MHz (Ext. 4MHz)

Maximum input voltage: 150 VRMS at 1kHz

Power requirements: AC 100/120/220/240V 50/60Hz Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.8 lbs.

· One-year warranty

Part No. Product No. Description 94676 FG2002C Function generator...... .\$299.95

1.3GHz Frequency Counter

· 8-digit green LED display

Totalize RPM, period

Gate time: 0.01s, 0.1s, 1s. 10s

Input power:

AC 110V/220V ±10%, 50/60Hz

· Includes: probes, two fuses and manual • Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.3 lbs.

· One-year warranty

I	Channel	Frequency Range	Resolution
ı	Α	0.2Hz-150MHz	0.1µHz-10kHz
ı	В	50MHz-1.3GHz	0.1µHz-10kHz

Part No. Product No. Description 55790 FC2130 1.3GHz freq counter \$299.95 \$269.95

Digital and Analog DC Power Supplies

30VDC @ 3 Amps

· Output voltage: 0-30V

 Output current: 0-3A

· Can be used for positive or negative source

Overload protection circuit Constant current and con-

stant voltage operation

 Power requirements: 100AC @ 60Hz

Size: 5.2"W x 5.6"H x 10.0"D
 One-year warranty

Part No. Product No. Description Wt. (lbs.) 101928 GP4303A Analog DC 10.9 \$ALE \$189.95

121152 GP4303D Digital DC 10.7 \$ALE \$199.95



FAX Yoll From 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com

101928 inset

IAMECO Logic Probe



- . Max Frequency: 50MHz
- . Minimum detectable pulse: 10ns
- 120kΩ input impedance
- Maximum supply voltage: ±25V
- TTL threshold: (Lo) +0.8V ±0.1V, (Hi) +2.3V ±0.2V
- CMOS threshold: (Lo) 30% VCC ±10%, (Hi) 70% VCC±10%
- · No batteries required
- Size: 9.3"L x 2.8"W x 1.0"H
 Weight: 0.3 lbs.
- Part No. Product No. Description 26665 MS104 \$29.95 \$26.95 Logic probe

High Voltage AC/DC Test Probe

- · Maximum voltages: DC: 40kV, AC: 40kV, 28kVRMS
- Accuracy: DC: ±2%, AC: ±3%
- · Works with a voltmeter or multimeters with
- $10M\Omega$ input impedance and high voltage leads Input/output impedance: 1,000MΩ/1.1MΩ
- · Cable length: 39" • Probe length: 14"
- Weight: 0.8 lbs. One-year warranty
- Part No. Description 132290 High voltage test probe......

AINES Tone Generator and **Inductive Probe**

Identify the termination point and/or path of metallic wiring in addition to performing continuity and polarity checks!



- · 3-color LED · Each uses one standard 9V battery
- Weight: 0.7 lbs. One-vear warrantv
- Description Tone generator/ind. probe SALE \$89.95 123596

Digital Hand-held 5MHz Sampling Rate Oscilloscope

- Maximum sampling frequency: 5MHz for repetitive signals
- Maximum sampling frequency: 0.5MHz for single shot events
- Input impedance: $1M\Omega/20pF$
- Maximum input voltage: 100V peak (AC + DC)
- Input coupling DC, AC, and GND
- Linearity: ± 1 bit LCD graphics: 64 x 128 pixels Time base: 2µs to 20s/div
- Input sensitivity: 5mV to 20V/div
- · Trigger mode: normal, auto or single
- Trigger edge: rising or falling Freeze frame function
- True RMS or peak-to-peak readout
- Markers for voltage and time measurement
- AC power 9V adapter (not included P/N 100845, pg 62) Probes not included - use P/N 22891 (above right)
- Size: 9.0"L x 4.9"W x 1.5"H Weight: 2.4 lbs.

0110 90	ar warrancy	
Part No.	Description	Price
135941	5MHz Oscilloscope	\$269.95

250MHz Oscilloscope Probe

- Standard BNC male connector
- · Hook and pointed probe
- Aligator clip ground wire
- 5' cable
- Max. input voltage: 600VDC
- Includes extra probes
 Weight: 0.3 lbs.
- with oscilloscope input 20pf

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	150MHz
Bandwidth (3dB)	6MHz	250MHz
Impedance (R/C)*	1MΩ /150pf	10MΩ /14pf

Part No.	Product No.	1-9	10-24	25+
140687	LF290WR	\$39.95	\$35.95	\$31.95

JAMECO 100MHz Modular **Oscilloscope Probe**

- Standard BNC male connector
- Hook and pointed probe
- Alligator clip ground wire

\$79.95



- 5' cable Max: 600VDC Weight: 0.3 lbs.
- * with oscilloscope input 20nf

25

Product No. .\$29.95 \$26.95 \$23.95 66149

IAMECO 60MHz Modular Oscilloscope Probe

- · Standard BNC male connector
- · Hook and pointed probe
- · Alligator clip ground wire
- Max: 600VDC
- 5' cable Weight: 0.2 lbs.
- * with oscilloscope input 30pf

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	40MHz
Bandwidth (3dB)	6MHz	60MHz
Impedance (R/C)*	1MΩ /180pf	10MΩ /22pf

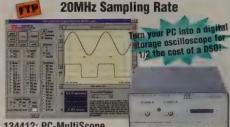
Product No. Part No. LF189★ .\$19.95 \$17.95 \$15.95 22891

JAMECO Logic Pulser



- . Compatible with TTL, DTL, RTL, HTL, HNIL, MO and CMOS ICs
- $1M\Omega$ sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10µs
- Pulse mode output current: 10mA
- Square wave current output: 5mA Audible tone
- Size: 7.8"L x 1.0"W x 0.6"H
 Weight: 0.2 lbs. Part No. Product No. Description 1-4 5-9 24601 LP540 Logic pulser\$19.95 \$17.95

mission technology PC-MultiScopes



134412: PC-MultiScope

- 20MHz sampling: dual ch.: 2MHz analog bandwidth Frequency analyzer (FFT) and transient signal modes
- 5mV/div to 5V/div; connects to PC parallel port Includes parallel port cable, 18VACT power supply
- alligator clip probe; MS Windows® 3.1/95 compatible software and manual
 Size: 5.7"L x 6.7"W x 1.8"H

 • Weight: 4.6 lbs.

142834: PC-MultiScope 2

- Same as above with 20MHz sampling; 10MHz analog bandwidth; built-in external trigger
- 1mV/div to 10V/div; built-in adjustable DC power supply output (-7 to +7VDC, 150mA) Wt.: 3.8 lbs.

144135 & 144127: Source Code

- Buy the corresponding source code module to create your own custom data acquisition programs
- · Weight: 0.1 lbs.

Part No	Description	Price
134412	PC-MultiScope	\$299.95
144135	PC M source code	69.95
142834	PC MultiScope 2	399.95
144127	PC M2 source code	69.95

vellemen Digital Storage Scope for PC **32MHz Sampling Rate**



Three programs are available from the supplied MS DÔS program: Oscilloscope with True RMS readout, FFT Spectrum Analyzer (up to 16MHz), and Transient Signal Recorder.

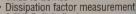
- Two channels with sampling frequency of 32MHz
- Maximum input voltage: 100VAC/100VDC
- Input impedance: $1M\Omega$ @ 30pF Input coupling: AC, DC, and ground
- System requirements: IBM or compatible PC with 386 microprocessor or better, 460Kb available memory, VGA display card, and mouse
- Requires 12VDC transformer P/N 129331 (pg 62) Includes: 3.5" software, 25-pin male to female ribbon
- cable (parallel port) and manual . Weight: 2.8 lbs. Size: 8.8"W x 6.9"D x 1.8"H
 One-year warranty

Part No. Description

139678 PC digital storage scope.....\$299.95 \$269.95 141196 Scope-It for Windows®59.95 53.95

IAMECO Digital LCR Meter

- Measures inductance 0.1uH to 200H
- Measures capacitance 0.1pf to 2000µf
- Measures resistance: $1m\Omega$ to $20M\Omega$



- 0.5"/3.5-digit display
- Includes test-leads and battery Size: 6.7"L x 3.3"W x 1.4"D Weight: 1.1 lbs.
- One-year warranty

Part No. Description 127538 LCR meter



Documentation available at ttp.jameco.com



\$1.39 Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantity, or less



NEW

METEX 31/2-Digit Digital Multimeter

.5" High Digits . LCD Readout

- 3½-digit LCD (.5" high digits)
- · AC voltage/resolution: 200mV/100µV, 2V/1mV, 20V/10mV, 200V/100mV. 700V/1V
- DC voltage/resolution: 200mV/100µV, 2V/1mV, 20V/10mV, 200V/100mV, 1000V/1V
- AC & DC current/resolution: 20μA/10nA, 200μA/100nA, 2mA/1µA, 20mA/10µA, 200mA/100µA, 2A/1mA, 20A/10mA
- Resistance/resolution: 200Ω/0.1Ω. 2ΚΩ/1Ω. 20K Ω / 10Ω , 200K Ω / 100Ω , 2M Ω /1K Ω , 20M Ω /10K Ω
- Auto zeroing Input impedance: 10MΩ
- Overload protection: 1000VAC/VDC
- Includes probes, batteries, carrying case and manual
- · See page 95 for compatible leads (P/Ns: 77745, 77770, 21856, 21864)
- Size: 3.5"W x 1.3"D x 6.8"H Weight: 1.2 lbs.
- · One-year warranty

Part No.	Product No.	Description	1-4	5-9
27115	M3800	3½-digit	\$39.95	\$35.95

METEX[®] 3³/₄-Digit **Multimeter** with Computer Interface and Dual Display

- 3¾-digit LCD (.6" high digits)
- Measures AC/DC voltage: AC current (400µA to 20A) DC current (400µA to 20A)
- · Computer interface (MT/RS232C) with software and cable
- Measures resistance $(400\Omega \text{ to } 40M\Omega)$
- Autoranging all scale setting
- Measuring for inductance, temp, (°C/°F)
- Measures transistor HFE, frequency, capacitance. and checks diodes

RMS

- · Includes 9V battery and 3.5" software diskette
- Size: 3.3"W x 1.8"D x 7.2"H
- Weight: 1.9 lbs. One-year warranty

Part No. Product No. Description 137461 M3860D 3%-digit......\$149.95 \$134.95

MARTECH 41/2-Digit Multimeter

- · Extra large (0.8" high) digits
- AC voltage: 2V to 700V
- · DC voltage:
- 200mV to 1000V
- AC/DC current: 2mA to 10A
- Resistance: 200Ω to $200M\Omega$
- · Frequency: 20kHz
- · Capacitance: 2000pf to 20µF
- · Measures transistor HFE and continuity
- · Hold button · Auto power off
- · Includes protective boot, battery, probes and manual
- Size: 8.8"L x 3.9"W x 1.9"H
- Weight: 1.5 lbs. · One-year warranty

Part No. Product No. Description 5-9 136590 MY65 \$62.95 4½-digit......\$69.95

METEX[®] Jumbo Digital Multimeter

.7" High Digits • 41/2-Digit LCD

- 4½-digit LCD (.7" high digits) AC voltage/resolution:
- 200mV/10µV, 2V/100µV, 20V/1mV, 200V/10mV, 750V/100mV
- DC voltage/resolution: 200mV/10µV, 2V/100µV, 20V/1mV, 200V/10mV, 1000V/100mV
- Resistance/resolution: $200\Omega/0.01\Omega$, $2K\Omega/0.1\Omega$, 20K Ω /1Ω, 200K Ω /10Ω. $2M\Omega/100\Omega$, $20M\Omega/1K\Omega$
- Capacitance/resolution: 2000pf/0.1pf 200nf/10pf, 20µf/1nf
- Frequency/resolution: 20kHz/1Hz, 200kHz/10Hz · Computer interface (RS232C) with
- software (5.25") and cable
- · Data hold switch · One-year warranty
- Size: 3.3"W x 1.8"D x 7.2"H
 Weight: 1.7 lbs.

Part No. Product No. Description 106534 M4650CR 41/2-digit\$139.95 \$125.95

METEX® 31/2-Digit Multimeter with Computer Interface and **Temperature Measurement**



+1200°C) · Measures transistor HFE, frequency, and capacitance

measurement

probe (-40°C to

Super

Slim!

Light

Weight!

5-9

- Data hold switch . One-year warranty
- Size: 3.3"W x 1.8"D x 7.2"H Weight: 1.8 lbs.

Part No. Product No. Description 117372 M3850D 3½-digit......\$119.95 \$99.95

LG Precision 33/4-Digit LCD **Digital Multimeter**

· 3%-digit (3200 count w/ bar graph) DC voltage range: 300mV - 450V

AC voltage range (50/60Hz): 3V - 450V

DC current: 300µA - 300mA

 AC current (50/60Hz): 300µA 300mA

Resistance: $300\Omega - 30M\Omega$

Auto ranging w/ manual ranging override

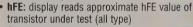
- · Auto power off, low battery indicator Diode and continuity check
- Data hold function
 One-year warranty
- Size: 2.5"W x 1.0"D x 4.8"H Weight: 0.3 lbs.

Part No. Product No. Description 1-4 143757 DM733 3¾-digit.....SALE

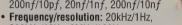
METEX® 41/2-Digit Multimeter with Computer Interface

.5" High Digits • LCD Readout

- 41/2-digit LCD (.5" high digits)
- · AC voltage/resolution: 200mV/10uV, 2V/100uV, 20V/1mV, 200V/10mV, 750V/100mV
- DC voltage/resolution: 200mV/10µV, 2V/100µV, 20V/1mV, 200V/10mV, 1000V/100mV
- AC & DC current/resolution: 2mA/100nA, 20mA/1µA, 200mA/10µA, 20A/1mA
- · Diode/continuity: measures forward resistance of a semiconductor junction in $K\Omega$ a test current of approximately 30Ω



 Capacitance/resolution: 20nf/1pf 200nf/10pf, 20nf/1nf, 200nf/10nf



200kHz/10Hz, 2MHz/100Hz Includes software, test leads, PC interface and manual

- Size: 3.3"W x 1.5"D x 7.5"H
 Weight: 2.0 lbs.
- LCD size: 2.4"W x 1.3"H · One-year warranty

Part No. Product No. Description 1-4 **144872** M4640A 4½-digit......\$169.95 \$152.95

BelMERIT 31/2-Digit Multimeter TTL and CMOS logic testing capabilities

- Large .71" LCD display
- · 12 function with 44 ranges
- Automatic power off
- · Data and peak hold
- . Transistor HFE for NPN and PNP
- DC/AC current to 10A fuse protected
- AC voltage: 200m, 2, 20, 200, 750V
- DC voltage: 200m, 2, 20, 200, 1000V
- AC/DC current: 200µ, 2m, 20m, 200m, 2, 10A
- Capacitance: 2n, 20n, 200n, 2µ, 20µ Frequency: 2K, 20K, 200K,
- 2M, 20MHz
- Resistance: 200, 2K, 200K, 2M, 20M, 2000MΩ • Size: 3.9"W x 2.3"D x 8.0"H • Weight: 1.5 lbs.
- Three-vear manufacturer's warranty

Part No. Product No. Description 140273 DX451 3½-digit.....**\$89.95**

BelMERIT 31/2-Digit Multimeter

 Large 3½-digit liquid display (LCD) readout with function and range annunciators, .25% basic accuracy

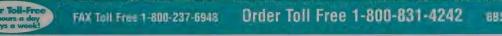
 DC/AC current range: 200μ-10A Voltage range: 200mDC-1000VDC

200mAC-750VAC

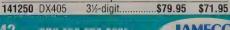
- Resistance range: 200Ω - $200M\Omega$ Capacitance range: 2n-20µf
- Frequency range: 2kHz-20MHz Input protection to 500vrms,
- DC/AC 10A fuse protection 10 functions and 39 ranges
- Auto power off
- · Data hold function and input warning beeper
- Includes standard 9V battery, test leads, manual and deluxe holster . Weight: 1.5 lbs.
- Size: 3.9"W x 2.3"D x 8.0"H
- · Three-year manufacturer's warranty

Part No. Product No. Description









Digital Watt Meter

Make your assortment of test equipment more complete with this handy watt meter

- · Maximum ranges: 6000W
- · AC voltage: 750V;
- AC current: 10A · DC voltage: 1000V; DC current: 10A
- · Low power 31/2-digit 0.5" LCD display
- Watt zero adjustment dial
 Bipolar operation
- · Built in low battery indicator
- · Includes test leads and manual · Requires 9VDC battery (not included)
- Size: 7.0"L x 3.3"W x 1.3"H
- · Weight: 1.2 lbs. · One-year warranty

Part No. Description 134711 Digital watt meter.....

EXTECH Digital Light Meter

With this meter, you can measure the illumination levels in light sensitive areas such as clean rooms, photography labs, security areas and areas requiring OSHA compliance.



Measures in both Lux and footcandle ranges

- Range: Lux 0-50,000 Lux (3 ranges); footcandle 0-5,000 Fc (3 ranges) 0.5" LCD display
- · Analog output connectors for external recording
- Separate light sensor for optimum location sampling · Operates on 9V battery (included)
- Dimensions: instrument 6.4"L x 2.8"W x 1.2"H sensor probe - 3.2"L x 2.2"W x 0.5"H
- · Weight: 0.9 lbs. · One-year warranty

Part No. Description 131764 Digital light meter\$119.95 \$107.95

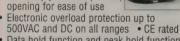
BelMERIT Digital Clamp Meter

 3½-digit, liquid displays (LCD) with a maximum reading of 1999 and 4000 count LCD screen with

annunciators Current range 400A, 600A (AC)

 Voltage range 750VAC, 400VDC

Resistance range: 4000Ω Tear drop jaws 1.3" (32mm)



- · Data hold function and peak hold function
- Includes standard 9V battery, test leads, manual & case Size: 8.0"L x 3.3"W x 1.5"D
 Weight: 1.0 lb.
- · One-year manufacturer's warranty

Description 140644 Digital clamp meter..... \$89.95

JAMECO Mini DC/AC Current Clamp Meter

Specifications

· Bright 1/2" LCD display with DATA HOLD

· Complete with test leads, manual and case

 Size: 7.1"L x 1.9"W x 1.4"H

· 9V battery not included

· Weight: 0.9 lbs.

AMECO

*Frequency Response One-year warranty Zero Adjust Description

External knob for DCA 5-9 Clamp meter. 115756\$99.95 \$89.95

JAMECO Dual Digital Thermometer and Probe

123861: • Measurement range: -50°C to 1300°C (-58°F to 1999°F)

Ambient operating range: 0°C to 50°C (32°F to 122°F) Resolution: 1°C, 1°F

Maximum voltage at thermocouple input: 60VDC, 24VAC



· For use with any K-type thermocouple as temperature sensor – recommend P/N 123879 Size: 5.3"L x 2.8"W x 1.2"H • Weight: 0.6 lbs.

One-vear warrantv

123879: • Type K thermocouple (chrome lead = pos., aluminum lead = neg.) • For use with P/N 123861
• Temp range: -58°F (-50°C) to 392°F (200°C)

Welded exposed thermocouple 0.03" diameter

Length: 3' • Weight: 0.02 lbs.

Part No. Description Price \$69.95 Temperature probe... 11.49

Jameco Temperature Probes

K type thermocouple (chromel+, alumel-)

Plastic protective carrying bag

Coiled (5' stretched) For use with dual

digital thermometer (P/N 123861 - above) • Weight: 0.2 lbs.



144071: Liquid temperature probe

Range: -50°C to 1000°C (-58°F to 1832°F)

- For temperature measurement of liquid or gels
- Yellow handle and cord

144080: Surface temperature probe

- Range: -50°C to 750°C (-58°F to 1382°F)
- For flat or curved surface measurements

· Black handle and yellow cord

Part No. Description 144071 Liquid temperature probe\$19.95 144080 Surface temperature probe49.95

Weidmuller 3 Paladin Tools PC Cable-Check™ Tester

This cable checker is really several testers in one with its ability to check many different types of cables in different applications. It tests standard computer cables for open, shorted and cross-connected wires. These checks provide continuity and wiring configuration. In addition, PC Cable-Check™ tests any combination of D-sub 9-pin (male or female), D-sub 15-pin including HD and

male/female, D-sub 25 male and female configurations, Centronics 36-pin printer plus RJ11 and RJ45 telephone plugs. For coaxial needs, the PC Cable-Check™ is capable of checking RG58, RG59 and RG62 BNC connections. On these type systems, network cables can be tested for connections with pass or fail diagnosis clearly shown on LED readout. This handy unit also checks shield continuity.

Includes battery and manual
 One-year warranty

Size: 9.3"L x 5.5"W x 1.8"H • Weight: 1.7 lbs. Description 123916 PC cable-check™... \$149.95

EXTECH 15A AC Line Separator

· X1 and X10 clamp areas

 Size: 6.0"L x 2.1"W x 1.1"H • 15 amp max. · One-year warranty

Part No. Description 119589 3-prong separator

Wt. (lbs.) 10-24 1-9 0.4.....\$17.95 \$15.95 AMECO 31/2-Digit Pocket Multimeter

000

107232 Interface

Sel 84 14

 Measures: AC/DC voltage. A DC, HFE and resistance

 DC voltage: 200mV, 2V, 20V, 200V, 1000V AC voltage:

200V, 750V Resistance: 200Ω ,

 $2k\Omega$, $20k\Omega$, $200k\Omega$, $2M\Omega$ DC current: 200mA, 2mA, 20mA,

200mA, 10A · Diode test

Removable test leads

 One-year warranty Size: 2.6"W x 1.0"D x 4.8"H
 Weight: 0.5 lbs.

Part No. Description Pocket multimeter w/ test..\$17.95 \$15.95

◆ Protek 3³/₄-Digit Multimeter

w include

Temperatur. Probe!

Transistor HFE

RS232C interface

True RMS mode

 4000 count, auto-ranging with analog bargraph

 9999 (10MHz) count frequency counter

10 location memory

Time mode with alarm, clock and stop watch

· MIN., MAX., AVG. and relative mode

Decibel measurement

Temperature mode (°C/°F)

Backlit display

· Capacitance and inductance measurement

Includes test leads
 One-year warranty

Size: 7.8"L x 3.3"W x 1.5"H • Weight: 2.6 lbs.

Part No. Description Price 33/4-digit multimeter..... 123721

\$209.95

EXTECH Digital Sound Level Meter Designed to meet the sound survey

requirements of safety engineers, health and quality control applications as well as sound surveying of homes, sound studios, schools and more

A and C weighting with Lo/Hi ranges from 35 to 130dB • 0.5" LCD display

Accuracy: ±2dB at 94dB sound level

· Slow/fast time weighting

· Maximum hold readings, with decay <1dB/3 min. • Calibration terminal w/ tool

· AC and DC outputs for analysis and recording . Built in electric condenser microphone

Operates on 9V battery (included) Size: 9.5"L x 2.7"W x 1.0"H

· Weight: 1.1 lbs. One-vear warranty

Part No. Description

131772 Digital sound level meter ... \$199.95

BelMERIT Capacitance Meter

• 3½-digit, LCD displays up to 1999

 Range: 200pf to 20mf in 9 steps

· Polarity: automatic, positive implied

Low battery indicator · Capacitance measurement rate: 2 times per second (nominal)

Includes 9V battery, test leads, and

0.1A/250V protection fuse Size: 6.0"L x 2.8"W x 1.7"H
 Weight: 0.6 lbs.

Part No. Description 140741 LCD capacitance meter... \$49.95

Documentation available at ttp. jameco.com

\$1.39 Sale price good at this quantity only

Accuracy

±0.8% + 1d ±1% + 1d

40-400Hz

200Ω

Also available at your local JIM-PAK retailer - see page 128

99.7% Stock Availability!



10-24

\$4.95

Alligator Clip Leads (10)

- 24 AWG wire
- · Color-coded, 15" long
- · Insulated alligator clip on each end
- 10 per pkg. in assorted colors

1-9 10-99 100-249 250+ Description 10444* Alligator leads...\$2.75 \$2.49 \$2.25 \$1.95

Insulated Alligator Clips (2)

- · Color coded
- · Jaw opening .375"-0.5" Accepts standard
- banana connector
- · Insulated barrel
- Solder strap and pre-drilled hole for 6-32 self threading screw
 Size: 2.3"L x 0.5"W
- Includes one red and one black clip

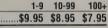
1-9 10-99 100-249 Description Alligator clips.....\$.49 \$.39 \$.35 \$.29 70990

Mini-Clip Test Leads (5)

Spring loaded, these mini-clips hook easily to IC pins for testing.

- · Set of five: red, blue, green, black and yellow
- 26 AWG to 300V CSA/UL approved wire
- Part No. Description

135298 Mini test leads



Mini Test Clips (2)

· Sets include one black and one red hooked probe clip · Material: plastic



• 14" length

ran Nu.	Describition 1-3	10-22	100+
	1.75" mini test clips\$1.95		
114817	3.5" mini test clips2.25	1.90	1.25

2" Banana Plugs (2)

- · Set screw connection
- Standard banana spring plug

Additional 6-32 threaded hole for additional connection reliability

- Insulating sleeve is threaded to banana plug body
- · Includes one red and one black connector
- .1875" lead opening
 Size: 2.0"L x 0.4"Dia.

Part No. Description 1-9 10-99 Banana connectors\$1.95 \$1.59 \$1.29 72194

21/4" Banana Plugs (2)

- Nine rib spring plug · Will accept up to
- 0.1" diameter wire
- · Set screw connection
- Each plug equipped with hole for interconnection
- Insulting sleeve fits snugly over copper post Includes one red and one black connector
- Size: 2.3"L x 0.3"W

1-9 10-99 100+ Part No. Description Banana connectors \$2.95 \$2.49 \$1.95 137525

Single Binding Posts to BNC male

- · Adapts BNC female connector to single binding post/banana plug
- · Binding post with captive thumb nut
- · Accepts standard banana plugs Operating voltage: 500 VRMS
- Brass nickel plated Size: 1.4"L x 0.6"Dia. Description 1-9 10-99 100+ \$.99 Black binding post......\$1.75 \$1.25 100618 100600 Red binding post1.75

100600

Double-Banana Plug to Alligator Clips **Test Cable**

· Red and black rubber boot · 4" lead wire





· Length: 3 Part No. Description 1-9 10-49 50-99 100+ 107422 Double-banana plug to

alligator clips....\$3.95 \$3.49 \$2.95 \$2.49

Mini Grabber to Banana Test Cables

- Available in black or red r
- · Plunger type action Positive connection
- that won't disconnect from components



- Banana plug connection on opposite end
- Length: 3.5' 20 AWG insulated wire

Part No.	Description 1-9	10-99	100+
21856	Black test cable\$3.75	\$2.95	\$2.49
21864	Red test cable3.75	2.95	2.49

BNC Male Test Cable

Permits BNC assembly to be used as a test cable. Upper connection: two alligator clips red 5.5" 22 AWG wire; black 9" 22 AWG wire. Lower connection: 23" RG/58U cable with



male BNC connector (UG260/U).

1-9 10-99 100-249 250+ Description BNC cable......\$3.49 \$2.95 \$2.75 \$2.49

BNC Test Cable Assemblies





BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications,

video and test equipment. Part No. Description 1-9 10-49 50-99 100+

BNC(M) to micro hook 11421* RG174 (39"L) ...\$3.49 \$2.95 \$2.65 \$2.39

BNC(M) to mini hook 11463*

RG174 (39"L) 3.49 2.95 2.65 2.39

BNC Standard Double Banana Plugs





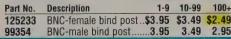
125233

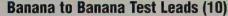
Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC upper connection double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No. Description BNC banana plug (F)\$3.95 \$3.49 \$2.95 11439 BNC banana plug (M)3.95 3.49

Double Binding Posts – Dual Banana

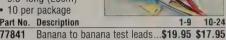
- · Red/Black design
- . BNC to double binding post





- Stackable
- · Color coded 2 each (red, yellow, blue, black, white)
- 18 AWG wire
- 9.8" long (25cm)

10 per package Part No. Description



Protected Banana Style Multi-Meter **Test Probes (2)**

- Threaded/pointed test tip · Black and red color coded
- 18 AWG wire 42" long (100cm) 2 per package Part No. Description 1-9

77737 Protected banana probes...... .\$5.95



- **Test Probes (2)** Black and red color coded
- 18 AWG wire 42" long (100cm)
 2 per package
- Part No. Description 1-9 10-24 77745 Banana probes..... \$5.95 \$5.25 \$4.59





- 18 AWG wire
- 42" long (100cm) Stackable 2 per package Part No. Description 10-24

77770 Stackable banana probes......\$4.95 \$4.49

Bread Board Pin to Bread Board Pin Test Leads (20) · Color coded 4 each

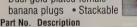
- (red, yellow, blue, black, white)
- 20 AWG wire
- 5.9" long (15cm)
- 20 per package

Part No. Description

77825 Breadboard pin leads\$11.95 \$10.49

Double Banana **Test Leads**

· Dual gold plated female





137533

137541

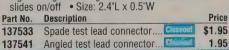
125209 Blk banana connector ... \$2.95 125217 Red banana connector....2.95

Spade and Angled Test Leads (2)

- Set screw connection will accept up to 0.1' diameter wire
- Hole for banana plug interconnection
- Includes one red and one black test lead Weight: 0.03 lbs.

137533: Copper Spade Tip Size: 2.3"L x 0.5"W

137541: Copper Angled Tip · Tight fitting insulating sleeve



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.lamneo.com



Jameco AC On/Off Timer

Deters theft! Turns lights on and off when you're not home!

· One on/off setting

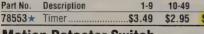
• Input voltage: 125VAC/60Hz

• 10 amp contact rating

• Color: beige • Weight: 0.4 lbs.

Size: 2.6"W x 1.9"D x 3.8"H

1-9 10-49 50-99 .\$3.49 \$1.95



Motion Detector Switch

Replaces standard wall switch

 Timer adjustment (5-25 minutes) · Sensitivity adjustment

· Auto off switch

. Mini spout load: 80W/120V

Maxi spout load: 1000W/120V
Size: 5.0"L x 5.0"W x 1.4"H
Weight: 0.9 lbs.

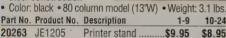
Description 122892 Motion detector switch \$8.95

Jameco Compact Printer Stand

· Printout stacks in document tray automatically

Document tray folds up in tight working areas

· Durable, safety coated steel construction



Jameco Six-Outlet Metal **Power Strip Surge Protector** 1888888

Built-in safety circuit breaker (15 amps)

Maximum spike current: 4500 amps, 50 joules

Three-prong, 4' power cord • UL listed

Color: beige, metal housing Size: 12.3"L x 2.4"W x 1.3"H • Weight: 1.7 lbs.

Description 20175 Power strip \$8.95 \$7.95

240W Surround Subwoofer System

Dynamic surround sound provides lifelike audio reproduction. Spectacular omni-directional deep bass performance. Compatible



with PC and MAC computer systems, Sega, Genesis, Nintendo, and Playstation game systems, portable and compact stereo systems. Includes sound card connector cable and power adaptor.

· Weight: 11.1 lbs. · One-year warranty

Satellite Speakers

· Power, volume, bass, and surround sound switches

Amplifier output power: 10W RMS (5W per channel)

Front headphone and microphone pass-through jacks

Dimensions: 4.5"W x 5.0"D x 9.8"H

Subwoofer

Amplifier output power: 10 watts RMS

Dimensions: 6.5"W x 8.5"D x 10.0"H

Part No. Description Price 141399 Surround subwoofer system SALE \$69.95

Word Star Easy Software Word Processing Software

PC/XT/AT* and compatibles

87,000 word spelling corrector

Comes on 5.25" diskette

Pop-up menu • Weight: 0.9 lbs.

* Please specify if purchasing for a 386 computer Description Price

16660 Word Star Easy Software C

Slide Dimmer Module

· Single-pole for one switch circuits

120VAC @ 75-600 watts incandescent lighting only . Fits single gang wall box

Full range light control

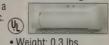
RF filter reduces AM radio interference and blocks TV and FM interference

Includes 2 wire nuts and mounting Weight 0.2 lbs

1-9 Description Slide dimmer \$2.95 \$2.49 \$1.75

Portable Fluorescent Mini Light

· Plug in anywhere-perfect as a night light or use on trips, etc. Rated: 120VAC @ 3.5W



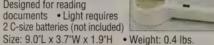
 As bright as a 20 watt bulb
 Weight: 0.3 lbs. Description 132994 Fluorescent light\$4.95

Assorted Magnifiers

"Comfort Light" Illuminated Magnifier

2X-4X 90mm diameter lens

· Designed for reading documents . Light requires 2 C-size batteries (not included)



Part No. Description Comfort light magnifier, white .. \$6.95 \$5.95

General Purpose Illuminated Magnifier

2X-4X 90mm diameter lens

For everyday use

· Light requires 4 AA-size batteries (not included)

 Size: 9.0"L x 3.8"W x 0.8"H
 Weight: 0.3 lbs. Description 1-9 Illuminated magnifier, black \$4.95

Deluxe Magnifier

 2X-4X-wide 110mm diameter viewing lens

Size: 8.4"L x 4.0"W x 0.6"H • Weight: 0.3 lbs. Description 1-9 135896 Deluxe magnifier, black ..\$4.95 \$4.49

Folding Magnifier with Rule

6X-30mm diameter lens

View and measure with the square measuring grid in inches and mm

Size: folded - 2.2"L x 1.6"W x 0.5"H unfolded - stands 2.2"H . Weight: 0.1 lbs.

Part No. Description Price 135870 Folding magnifier w/ rule, black \$2.95

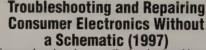
Folding Pocket Magnifier

3.5X-43mm diameter lens

· Handy, easy to carry - measures 2" square when folded

Weight: 0.1 lbs

Description 135888 Folding magnifier, black.....



Discover how to solve even the toughest problems without a schematic!

Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages)

Size: 7.4" x 9.3" • Weight: 1.1 lbs. Part No. Description 1-4 136080 Consumer Electronics. \$22.95 \$19.95



5-9

Cellular Phone Battery Packs

Motorola · Made from only the best

quality cells . Weight: 0.4 lbs. Part No. For Models Style Talking Time 122657 PT-500 (flip) Ni-Cad 80 min\$19.95 122665 PT-500 (flip) Ni-Cad 120 min**29.95** 131174 PT-500/950 (flip) Ni-MH 120 min 131182 PT-500/950 (flip) SlimNi-Cad 70 min39.95

NEC/Ericsson/Nokia

· Style: Ni-MH (no memory build up like Ni-Cad batteries)







Weight:	0.4 lbs.	131051	131140		131107
art No.	For Models		Talk. Time	8	Price
31051	NEC P100/1	10/120	150 min .	********	.\$12.95
31140	Ericsson 23	7/337	150 min.		24.95
31086	Nokia 101/1	21/128	145 min.		29.95
31107	Nokia 232/5	00	130 min.		29.95

Cellular Phone Accessories

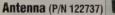
Hands-Free Kit (P/N 128848) For MOTOROLA Flip Phones

Keep both hands free while charging your battery! • Weight: 0.6 lbs.



Black Leather Case (P/N 130972) For MOTOROLA Flip Phones

· Handy leather case protects your cellular phone . Belt loop . Weight: 0.2 lbs.



For cellular phones with external antenna option

· Enhances signal clarity and reception! · Weight: 0.7 lbs.

Part No.	Description	Pric
128848	H/F kit w/ plug-in charger Closeout	\$29.9
130972	Black leather case	9.9
122737	Glass mount 5dB antenna Closeout	7.9

Plug-in Saver Chargers Motorola/Nokia

· Charge your battery by plugging the saver into your cigarette lighter and phone

. 6' coiled cord . Color: black



Dual Desktop Charger

· Charges Ni-Cad and Ni-MH

Motorola and Microtac packs Charges two packs or two packs with handset at 450mAh and back slot alone



charges at 800mAh 120 or 220-240VAC input 120V adapter included

Includes 12-14VDC connector for use in vehicle

Weight: 1.7 lbs.
 One-year warranty

131861 Desktop cellular charger......\$39.95

Stereo and Speaker Wall Brackets

· Holds a mid-sized stereo and two speakers

· Must mount on wall stud Holds up to 80 lbs.

· Weight: 8.6 lbs. Part No.



134480 Stereo syst. brackets, black... \$12.95 **OEM Pricing**



\$1.39 Sale price good at this quantity only

EA-SY

Office wilding the sea ★ Alice control of your test INF-Wit Intaller - Income 1/23



\$4.95

FOREFRONT POSTPlus Solution Card

Provides real solutions to the problems caused by PC/File Server hardware failures. Three digit display provides solution codes. Because of the on-board processor, it works even if the PC system or other POST code readers will not.

 Identifies boot failures instantly

 Works with any BIOS and can be customized for future BIOS designs



Reads POST

codes from every known IBM compatible system First diagnostic board to test PC motherboards

as well as ISA and EISA

Detects problems with power supply, analyzes systems motherboard, CPU, and adapter BUS signals that can cause lock-up

Includes card, probe and user manual Size: 7.0"L x 1.5"W x 9.5"H (package)

Weight: 1.0 lb. • One-year warranty

Description Price PostPlus Diagnostic Card.....\$349.95 141356

FOREFRONT Discovery Card Interrupt and DMA troubleshooting card

Diagnostic programs fail to detect actual DMA usage as well as IROs in use. With this card you eliminate uncertainty, timeconsuming delays, and conflicts.



(P/N 28311 - pg 83) for improved view

Use extender board

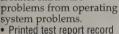
Tests with any IBM compatible system and card

 LED indicators display DMA, IRQ and CPU usage Complete manual with instructions and explicit

standards for operation . Weight: 0.6 lbs. Description SALE \$179.95 126148 The Discovery card

FOREFRONT Troubleshooter Software

The troubleshooter is a self-booting program with its own operating system that bypasses DOS for accurate hardware component testing. Isolates hardware problems from operating



Comprehensive tests of on-board and peripheral hardware

PC/XT/AT and compatible computers 99+ hours burn-in and soak testing

Low-level formats IDE drives

· Weight: 0.9 lbs. One-year warranty Part No.

Description Troubleshooter software SALE \$199.95

PC Battery Eliminator

All IBM PC compatibles Eliminates clock battery

126130

(3-7.2V) on your system Maintains SETUP configuration

Replaces all PC batteries
Input: 12VDC @ typical 5mA, peak 50mA

Output: 4-5VDC nom. @ 40µA Must be fully charged prior to use

One-year manufacturer's warranty Part No.

Description \$35.95 Battery eliminator.....



micro DATA Diagnostic Products

Quicktech Multimedia Diagnostic CD Quicktech Lite Diagnostic Software

Test, diagnose, analyze, and fine tune 6 different categories of your multimedia PC. Explore all multimedia functions and detect hidden problems that slow your MPC performance.



System requirements: Windows® 3.x or 95. IBM compatible with 486 or Pentium®, 8MB of RAM, MB of disk space and sound card

3.x and '95 CD ROM, HI-color display, at least 4

· Weight: 0.2 lbs.

Description Part No Multimedia Diagnostic CD 141241

Windows

Price

.\$69.95

RST RAM Stress Test Diagnostic Software

Self booting base, extended, and cache memory testing utitlity designed for rigorous testing needs.

Supports 386 thru Pentium Pro®

Single program diskette provides true portability and ease of use

• 3.5" Diskette

· Weight: 0.3 lbs.

Description RST RAM StressTest Diag. Software \$59.95

QuickPost POST/Diagnostic Card for PCI-Bus Systems

This is the first diagnostic card for monitoring Power-On-Self-Test results in systems using PCI-Bus architecture. During POST test, the system



BIOS is constantly monitored as well as the power supply, clock and reset lines.

· Plugs into any PCI I/O slot

· Digital indicators for every POST code error

· LEDs for monitoring power voltages (DC): +12, -12, +5, +3 • LEDs for clock and reset failure

Comprehensive manual with error codes from all major BIOS manufacturers including AMI. AWARD, PHOENIX and more

Weight: 0.6 lbs. • One-year warranty

Part No. Description 135108 PCI-POST diagnostic card\$199.95

CyberCircuit Plus Software

CyberCircuit Plus software - 1100 circuits

An extensive reference of electronic circuits. formulas, tables and other

information. Minimum system requirements: 386SX, Windows®



3.1, 4MB RAM, 4.5 or 6.5MB hard drive space, Includes manual 3.5" floppy drive

Search utilities make finding the correct circuit quick and easy · Weight: 0.4 lbs.

Description Price CyberCircuit Plus, 1100 cir... 134691

Self-booting software for 286, 386, 486 and Pentium® systems

 Verify proper operation and troubleshoot failures of all major PC components: hard drives (MFM, RLL, IDE, SCSI); floppy drives; base, extended and external cache



RAM: VGA/EGA/VESA - compliant video cards: keyboard; monitor; printer; and I/O ports

48 hour burn-in mode for lengthy testing

· Floppy drive head cleaning function

 Includes loopback testers for DE9 and DB25 serial and DB25 parallel ports, manual and 3.5"/5.25" software disks . Weight: 0.5 lbs.

Part No. Description \$89.95

R.A.C.E.R. II ISA Diagnostic Daughterboard

Repair a system that is up to 95% dead!

 PC/XT/286/386/486/ Pentium® and compatibles, including embedded systems

Video optional while running; shows every procedure taking place

Continuously loops to locate intermittent problems

Fault trees identify IC replacement hierarchy

Supports EGA and VGA

On-board BIOS to initialize system when Power-On-Self-Test cannot be completed Includes loopback connectors

Comprehensive manual includes test codes by system

Weight: 1.4 lbs.
 One-year warranty

Part No. Description 135116 Diagnostic daughterboard...... SALE \$449.95

PC Console Extender

Operate your PC from up to 262 ft. away!

· Suitable for SVGA, VGA, and multisync monitor

 Auto power save mode turns off console when computer is off

 Transmission distance: 262 ft. (80 meters)



Power consumption: AC 9V 300mA (max.)

· Monitor connector: 15-pin HD type female/male

· Mouse connector: 9-pin D-type male/female

· Keyboard connector: 5-pin DIN

LED: power indicator

Max. cable lgth: 6.5' (2M) to PC, 262' (80M) to console

· Weight: 1.5 lbs. · One-year warranty

Part No. Description CE-110 console extender \$149.95 \$134.95 141268

Accessory Cables

· 6' DBHD 15-pin male/female (monitor), 5-pin DIN male/male (keyboard), DE9-pin male/female (mouse) cable

· 32' DBHD 15-pin male/female (monitor), 5-pin DIN male/male (keyboard), DE9-pin male/female (mouse) cable

Part No.	Description	weight	1-9	10-24
141284	6' cable		\$24.95	\$22.49
141276	32' cable		49.95	44.95



Motherboard for Pentium MMX® 75MHz-233MHz

Intel® VX Chip Set Supports 3.3 and 3.52V Pentium® CPUs to 233MHz, Cvrix 6x86, 6x86 LP120 to P166+MHz, AMD KPR75 to PR

166MHz Award BIOS

• 128KB x 8 flash ROM (for plug & play BIOS)



Intel 82430VX PCI set system chipset

Supports four 72-pin SIMM slots and two 168-pin DIMM slots, upgradeable to 128MB

Supports FPO, EDO and SDRAM memory Four ISA slots (one slot PCI/ISA shared) and four PCI expansion slots (PCI 2.1 compliant)

 Built-in super I/O controller supports FDD, two IDE connectors (4 devices), two high speed 16C550 compatible serial ports, one SPP/EPP/ECP mode bi-directional serial port • One-year warranty

Size: 10.0"L x 8.8"W

· Weight: 2.3 lbs.

Part No.	Description	Price
140812	MB w/o CPU for Pent. MMX® SALE	\$169.95
140046	166MHz Pentium MMX® MPU SALE	179.95
140054	200MHz Pentium MMX® MPU SALE	299.95

Jameco "Green Function" **Motherboard for Pentium® Processors**

Award BIOS

Pentium® SIS P54C PCI/ISA system

Supports Intel Pentium® 75/90/100MHz CPU

2MB cache

 Supports 256K/512K/ 1M/2M (0K installed)

Four ISA and four PCI expansion slots (masters)

 Four 72-pin SIMM sockets support up to 128MB (see pg 16 for SIMMs)

· Manual included · One-year warranty Size: 11.3"L x 8.7"W · Weight: 1.7 lbs.

Part No. Description 138704 Pentium® MB w/o CPU \$79.95 125495 100MHz Pentium® MPU......124.95 119.95

Embedded CPU Card for Intel Pentium® Processor

Industry wide compatibility.

 Microprocessor: Intel Pentium® 75/90/100/

135044 133/166MHz processor 133MHz Pentium (not included - pg 13) for under \$550!

· System memory: 8-128MB,

4 socket for 72-pin SIMM (not included - pg 16)

· Cache size: pipelined burst sync/async cache module slot, up to 512KB • 128KB Award licensed BIOS

Two RS232 serial ports (16550 compatible includes FIFO)

· One multi-mode parallel port (SPP/EPP/ECP)

. Two PCI IDE ports, up to 4 IDE drives

· Floppy drive interface: up to two 2.88MB drives

• Watchdog timer: 0.5/1/2/4 sec time-out period selectable

· Built-in PC-104 expansion bus connector

· Includes cables, headers and four 1" hex standoffs • Includes manual • Board size: 13.4"L x 4.9"W

· Weight: 3.2 lbs. · One-year warranty

Part No. Description Price 135044 Pentium® embedded motherboard\$399.95 130833 133MHz Pentium® MPU chip. 129.95

Jameco 486/586 Motherboard 256KB Cache, 3 PCI/ISA Bus NEW

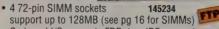
 Award BIOS ZIF socket 3

Supports 3.45/4V/5V CPU

Supports 25-133MHz CPU from Intel/AMD/Cyrix/TI/ SGS Thompson/IBM

256K cache

3 ISA/3 PCI slots



· On board I/O supports FDD, two IDE connectors, one parallel port (EPP/ECP), and two serial ports (16C550) fast COM

· Includes cables and manual · One-year warranty

Size: 8.6"L x 7.5"W

· Weight: 2.0 lbs. Part No. Description 145234 486SX/DX/DX2/DX4 w/o CPU..\$119.95 \$109.95 132716 100 MHz Am486DX4 CPU (AMD) 49.95

Motherboards for Pentium Pro® 150MHz-266MHz

Award BIOS

Supports Pentium Pro® 150MHz to 266MHz

4 ISA bus and 4 PCI local bus slots

· Cache memory supports: Pentium Pro® CPUs 139408 built-in 256KB/512KB L2 cache

Supports FPM, EDO and burst EDO SIMMs up to 1024MB • Supports ECC/parity functions

· IDE ports support: 2 channel PIO and BUS Master enhanced PCI IDE ports, up to mode 4 timing. and up to 22MB transfer rates

Supports 2 universal serial bus ports (NS16C550)

· IR port supports: infrared ray functions (both HPSIR and ASKIR) . Supports plug and play BIOS

Size: 11.5"L x 8.7"W • Weight: 2.4 lbs.

· One-year warranty

Part No.	Description	Price
139408	MB w/o CPU for Pentium Pro® SALE	\$299.95
140118	150MHz Pentium Pro® MPU SALE	249.95
140100	200MHz Pentium Pro® MPU SALE	569.95

Processor Protector Card PGA BUS

Confirm safe CPU operating voltages. PROCESSOR PROTECTOR quickly plugs into CPU socket 5 or 7 and reports actual voltages to insure your proces-

sor's proper operation.

• Easily identify Vr or Vre

CPU voltage levels for socket 5 motherboards

Quickly identify socket 7 motherboards that support dual voltage MMX CPUs

Correctly set socket 7 voltage levels for MMX processors

145154 Processor protector card

. Works with AMD, IBM, CYRIX and Intel MMX CPUs

• Size: 2.0" x 2.0"W X 0.5"H • Weight: .06 lbs. Part No. Description

.59.95

Micronics 486DX/SX Compatible Motherboard

Phoenix BIOS

 Supports 486SX-25 or 33MHz. 486SX2-50MHz, 486DX-33MHz. 486DX2-50 or 66MHz 486DX4-75MHz

· 256KB cache

 Three 72-pin SIMM slots support up to 96MB

One 8-bit and three 16-bit ISA slots

 1.44MB, 1.2MB, 720KB and 360KB floppy drive controller . Two VESA local bus slots

· Bi-directional parallel port

Two serial ports (NS16450)

• Size: 10.0"L x 8.7"W · Weight: 2.1 lbs.

Part No. Description 139387 486SX/SX2/DX/DX2/DX4 MB. SALE \$69.95

Jameco 486DX2-66 "Green" Motherboards

ISA/VESA Local Bus with 256KB Cache RAM

ZIF socket

Award BIOS

 Supports CPUs up to 120MHz

· Cache expandable to 512KB

 Supports RAM from 1MB to 128MB with four 30-pin and

three 72-pin slots Three 16-bit ISA bus slots

with 32-bit VESA extensions:

five 16-bit ISA bus slots

· Switch for green PC power management

• Fits most Jameco cases (pg 112)

• Size: 9.8"L x 8.8"W • Weight: 1.8 lbs.

· One-year warranty

Part No.	Description	Price
132311	486DX2-66MHz w/o CPU	\$139.95
132353	486DX2-66MHz w/ CPU	189.95

Jameco 386DX Compatible Motherboard

40MHz

NEW

· AMI BIOS

 Supports 256K x 9 (P/N 41515). 1MB x 9 (P/N 41751) and 4MB x 9 (P/N 53701)

SIMMS (pg 16)



132353

Supports Unix, Xenix, Novell, OS/2, and most popular software

Supports up to 64MB of RAM on-board

Supports 32/128KB cache RAM (0KB)

· Math coprocessor socket

. Five 16-bit slots and one 8-bit slot

• Fits most Jameco cases (pg 112)

Size: 8.6"L x 6.8"W
 Weight: 1.3 lbs.

Description

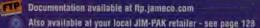
386DX 40MHz w/ CPU 137314

Price \$89.95



\$1.39 Sale price good at this quantity unly

Sale price to the right of banner good for that quantity, or less



\$53.95

SALE \$62.95

FL (F

Jameco PC Air Exhaust Fan

- · Insert into card slot (non-
- electrical connection) · The airduct can be extended and fan assembly reversed



12VDC 20 CFM airflow eliminates hot air

out of case while increasing flow through Fan is CE/TUV/UL/CSA approved

 Weight: 0.4 lbs. One-year warranty 5-9 Part No. Description 124492 PC air exhaust fan. SALE \$17.95

" Fancard II

- · Can be installed into any PC slot · Circulates air within case to keep all components VALUE
- from overheating • CFM: 25 MTBF: 30.000 hours · CE approved Weight: 0.5 lbs. One-year warranty
- Part No. Description 79020 Fancard II. \$19.95

Hard Drive Cooler and 3.5" Mounting Brackets 91 @

Now you can keep your hard drive cool and not consume valuable space! The "Just Cooler" has two efficient fans mounted on a 5.25" bay front panel which can be used in front of or in the drive bay above your hard drive.



1-4

 ϵ

\$17.95

5-9

- Two 12VDC @ 70mA fans Easy access air filter · Beige vented face plate replaces bezel on a 5.25" bay
- Y adapter for any hard drive
 Weight: 0.5 lbs. Includes 3.5" mounting kit
 One-year warranty

Description 135925 Hard drive cooler .. \$35.95

High Performance System Cooling Fan Fan creates strong air flow

- to cool off entire system Rated voltage: 12VDC @ 200mA
- Input power: 1.44W max. • Operating voltage: 9.6-1.44VDC
- Noise: 27dBA Fan life: 25,000 hrs.
- Size: 3.4"W x 1.3"D x 3.6"H
 Weight: 0.5 lbs. 10-24 1-9 Part No. Description 138966

System cooling fan\$14.95 \$13.49

Jameco PC/XT/AT Compatible 150/200 Watt Power Supplies



Compatible with 20511 and 108978 (see page 112)

- 19465 Output: +5V @ 15A, -5V @ 0.5A, (150 Watt) +12V @ 5.5A, -12V @ 0.5A
- 67467 Output: +5V @ 20A, -5V @ 0.5A, +12V @ 8A. -12V @ 0.5A
- Input: 110-220VAC @ 47-63Hz (switchable)
- PC/XT/AT compatible connectors Built-in fan
- Size: 9.5"L x 5.5"W x 4.6"H
 One-year warranty • P/N 67467: UL/CSA approved

Part No.	Product No.	Description	Wt.(lbs.)	1-4	5-9
19465	JE1030	150 watt	4.75	ALE	\$49.95
67467	JE1030A	200 watt	4.359	9.95	53.95

Jameco AT Compatible 200/250 Watt Power Supplies



Compatible with JE2012, JE2020 (previous models) and 20546 cases (see page 112)

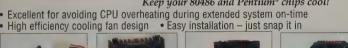
- 19529 Output: +5V @ 22A, -5V @ 0.5A, (200 Watt) +12V @ 6.5A, -12V @ 0.5A
- 132361 Output: +5V @ 25A, -5V @ 0.5A, +12V @ 10A, -12V @ 0.5A (250 Watt)
- · Fits in popular mini-vertical and desktop cases
- Input: 110-220VAC @ 50-67Hz (switchable)
- · AT compatible connectors · Built-in fan
- UL/CSA approved · Easy to install
- Size: 5.5"L x 5.9"W x 3.4"H Weight: 3.2 lbs.
- · One-vear warranty

Part No.	Product No.	Description	1-4	5-9
19529	JE1034	200 watt mini	SALE	\$39.95
132361	JE1033	250 watt mini	59.95	53.95
20400	Donation	® Ducasas		

91 @ (E ()

Jameco Heat Sink/Fans for 80486/Pentium® Processors!

Keep your 80486 and Pentium® chips cool!





(7660 118092 130163	1321	00	144864	
Part No.	Description	Wt. (lbs.)	Agency Approvals	1-4	5-9
85497	486 CPU heat sink only	0.05	_	SALE	\$2.95
67660×	486 and 586 CPU heat sink with fan	0.1	CSA/CE/TUV	7.95	7.15
112379	486 and 586 CPU heat sink with fan and heat pump	0.2	UL/CE/TUV	49.95	44.95
117348	Heat sink w/ fan for Pentium® 60/66	0.2	UL/CSA/TUV	12.95	11.49
118092	Heat sink w/ fan for 686 and Pentium® 75-166	0.2	CSA/CE/TUV	12.95	8.95
130163	Heat sink w/ fan for 686, Pentium® 75-166 & audible alarm if fan	fails 0.2	UL/CE/TUV	SALE	17.95
132097	Heat sink w/ ball bearing fan for 686 and Pentium® 75-166 - squ	are 0.1	UL/CSA/CE/TUV	14.95	13.49
132100	Heat sink w/ screw on ball bearing fan for 686, Pentium® 75-166 - r		UL/CSA/CE/TUV	SALE	17.95
144864	Heat sink w/ ball bearing fan for Pentium Pro® 150/200 - square	0.3	CE	17.95	15.95
138780	Heat sink w/ fan for Pentium® Pro and audible alarm if fan fails	0.3	UL/CSA/CE/TUV	24.95	22.95

Jameco AT Compatible 200 Watt Power Supply



Compatible with JE2019 case (previous model)

- Output: +5V @ 20A, -5V @ 0.5A, +12V @ 8A, -12V @ 0.5A
- 200 watt power supply
- Input: 110-220VAC @ 47-63Hz (switchable)
- AT compatible connectors Built-in fan
- · Easy to install UL/CSA approved
- Size: 6.5"L x 5.9"W x 6.0"H Weight: 4.5 lbs.

19545 JE1036

One-ye	ear warranty		
art No.	Product No.	Description	1-4

Jameco Vertical AT Compatible 300 Watt Power Supply

200 watt.....



- Output: +5V @ 23A, -5V @ 0.1A, +12V @ 15A, -12V @ 0.5A
- 300 watt power supply
- · Fits in popular vertical cases
- Input: 110-220VAC @ 47-63Hz (switchable)
- · AT compatible connectors · Built-in fan
- UL/CSA approved · Easy to install
- Size: 8.3"L x 6.0"W x 5.9"H Weight: 6.9 lbs.
- One-year warranty

Part No.	Product No.	Description 1-	4 5-9	
65728	JE1039A	300 wattSALI	\$89.95	

Jameco AT Compatible 300 Watt Power Supply with 3.3V Regulator



• Output: +5V @ 16-30A, -5V @ 1A, +12V @ 10A, -12V @ 1A +3.3V @ 7-28A

· 3.3V regulated power connectors to motherboard

Fits in popular mini-vertical & desktop cases (pg 112)

Input voltage: 110/220VAC @ 50/60Hz (switchable)

AT compatible connectors
 Built-in fan

 UL/CSA/TUV approved One-year warranty

• Size: 5.5"L x 5.9"W x 3.4"H • Weight: 4.7 lbs.

Part No. Description 132185 300W supply w/ regulator \$139.95 \$125.95



Monitor not included

66MHz 486, 4MB RAM, 420MB Hard Drive, CD-ROM, Speakers

· Mini-tower case

· 2-button mouse

· Computer Care Kit

Pentium MMX® 75-200MHz NEW

Cyrix. The CPU upgrade board employs patent

pending technology to adapt socket 7 systems to the voltage and pinout requirements of this new

generation of processors. It provides an upgrade

Încludes PowerLeap™ utility diskette (including the

w/ heat sink, power connector cords, PowerLeap™ PL-Pro/MMX upgrade board and manual

· Compatible with Pentium® motherboard w/ socket 7

MMX technology is compatible with wide range of

Windows®, OS/2 and UNIX • One-year warranty • Size: 2.9"L x 2.1"W x 1.5"H • Weight: 0.7 lbs.

Thermal / Time Fan Control Sensor

(for 12VDC Fan)

Upgrade for Pentium MMX® ..\$79.95 \$71.95

existing operating systems including MS-DOS,

Landmark System Speed Test), CPU cooling fan

solution that would otherwise require the

replacement of the motherboard.

• 512KB SVGA

2X CD-ROM

· MS DOS

Leading≡DG≡ Fortiva 3000 486DX2-66 Slim Desktop Computer

- Slim line case measures 13.5"W x 16.3"D x 4.0"H
- · 486DX2-66 motherboard
- IDE controller
- . One 5.25", half height accessible bay
- · PS/2 connectors for keyboard and mouse
- 4MB RAM, expandable to 48MB (four 30-pin slots and one 72-pin slot)
- · 8KB internal cache
- . 1.44MB floppy disk drive
- · External cache RAM will allow 64. 128 and 256KB
- SVGA on-board monitor port standard VESA 32-bit LB video interface with 1MB RAM. expandable to 2MB using two ZIP video RAM sockets
- Supports 1280 x 1024 and 16.7 million colors
- 80 watt power supply (115 or 230VAC)
- · Two serial ports (16450) and one parallel port
- · Vertical riser with 3 ISA 8 or 16-bit expansion slots
- 101-key keyboard
 Weight: 23.4 lbs.

Part No. Description 140468



486SLC-66 Multimedia System Monitor not included

Outstanding price/ performance value configuration for business or personal use. Everything you need to enter the world of multimedia including CD-ROM, stereo speakers, sound card and software. Upgradeable to meet your needs. Easy to setup! All software



System includes:

- · 486SLC-66MHz motherboard
- 4MB RAM

pre-installed

- · 420MB hard disk drive
- 16K internal/64K external cache
- 1.44MB 3.5" floppy disk drive
- · Sound card and speakers
- 101-key keyboard
- MS Windows® for Workgroups
- MS Works
- · Weight: 36.1 lbs.
- Description Part No.

132281

486SLC multimedia computer system (limited offer)......\$499.95 **Power Leap Upgrade Adapter for**

PowerLeap™ PL-

board allows

Pro/MMX upgrade

Pentium® Socket 7

systems to take

advantage of the

latest MMX CPU

technology from

Intel, AMD and

Part No. Description

· Conserve power

by controlling your

PC fan operation

by temperature

or time

Power Leap Upgrade Adapter for 486SX/DX/DX2 to 586-100/120/133

Protect your initial investment while giving your system new life! The power leap upgrade adapter installs in iust minutes and



allows you to install a 586 CPU into the adapter.

- · Supports 5V 486 motherboards
- 586-XXX chip not included
- Supports AMD-X5-133 or Cyrix 5x86-100/120/133 CPUs with 16K write-back cache - BIOS written before 1995 will only work with AMD CPU
- 133/120/100MHz core speeds with 33/40/50MHz bus options; fits in PGA/ZIF or Overdrive/487SX sockets
- Fully compatible with Windows® 95 and OS/2 Warp
- · Includes chip removal tool, manual and 3.5" utility/test disk
- · Weight: 0.5 lbs. · One-year warranty

Description

Upgrd. adapter for 586 CPU...\$49.95 \$44.95

486DX4 CPU Upgrade Adapter

The 486DX4 converts the normal +5V output into +3.45V for driving high end 486DX4 CPUs faster and more efficiently.

- Upgrade to 486DX4 75/100MHz
- · Overcurrent protection
- · Directly mountable on PGA or PGA ZIF sockets, no motherboard modifications necessary
- · Switching converter supplies stable power at 1.5A, while generating little heat
- Size: 1.9"L x 1.9"W x 0.3"H
 Weight: 0.1 lbs.
- · CPU not included · One-year warranty

Part No. Description 127968 CPU (486DX4) adapter... SALE

Power Leap Upgrade Adapter for Pentium® 60/66

Price

Upgrade to Pentium® 90/120/150 or 100/133/166

The Power Leap 54C installs directly into your existing CPU and runs up to 2.5 times faster!

 Upgrades a 60MHz CPU to 90/120/150 and a 66MHz CPU to

100/133/166 (3.3V Intel® Pentium® CPUs) · Quick, easy installation without drivers

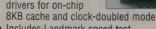
- · 64-bit internal and external processing
- · Operating voltage: 3.45VDC
- · Compatible with Windows® 95 and OS/2 Warp
- 273-pin PGA socket extender CPU not included
- · Includes speed test utility disk (3.5"), and manual
- · Weight: 1.3 lbs. · One-year warranty

Part No. Description 136039 Upgrade for Pentium® 60/66..\$89.95 \$80.95

386DX to 486-66 Upgrade CPU

Upgrade from 386DX-16/20/25/33 to 486-66

- Includes 486SXL2-66 upgrade CPU!
- · A money saving way to give new life to your older system
- Supports a 80387DX math coprocessor on motherboard
- · Includes software drivers for on-chip



- Includes Landmark speed test
- · Includes manual and chip extractor · Weight: 0.6 lbs.
- Part No. Description 132960 386 CPU converter





Fits into 5.25" bay



- 1.75"W x 1.0"H digital display
- Operates on CR2032 3V battery One-year warranty
- Requires 12VDC for fan (3.5" drive connector)
- Size: 5.9"W x 2.4"D x 1.8"H
 Weight: 0.4 lbs.
- Part No. Description

\$79.95 141612 Thermal/time fan sensor... \$79.95 Documentation available at Itp.jameco.com

\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less

Also available at your local JIM-PAK retailer - see page 128



Laser Diodes

Pin Connection: 1.Laser Diode Cathode 2.Laser Diode Anode Photodiode Cathode

3. Photodiode Anode



- Optical output power: Po = 5mW
- Compatible with P/Ns 126711 and 126244 (right)
- Weight: 0.004 lbs. One-year warranty

139416: 808nm infrared laser diode

 Operation case temp.: $Tc = -10^{\circ}C$ to $+40^{\circ}C$

Lasing wavelength: λp = 808nm

125284: 660nm laser diode

 Operation case temp.: $Tc = -10^{\circ}C$ to $+50^{\circ}C$



Class Illa ser Produ

125284

Lasing wavelength: λp = 660nm

Part No.	Descrip	HOU			1-9	10-24	25-49
139416						\$35.95	
125284	660nm	laser	diode	1919	3.95	17.95	15.95
			77				

Laser Diode Module

 Operates on 3VDC @ <5mW 670nm wavelength

Beam diameter: 3.2mm

Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)

Size: 0.8"L x 0.4"Dia.

Weight: 0.02 lbs.

· One-year warranty

Part No. Description 131203

1-4 Laser module, brass\$49.95 \$44.95

Price

\$39.95

DANGER

Class Illa Laser Product

Class Ilia Laser Product

Jameco Laser Pointer

· Light weight

 Includes case and batteries

Output power: <5mW

· Power requirements: 2 AAA batteries (included) Size: 5.0"L x 1.0"W x 0.5"H

Weight: 0.4 lbs.
 One-year warranty

Description 121136

Laser pointer <5mW

ass Illa Laser Product

Line Laser

143845: Line laser module

 APC power control · Current stable control

· Focus adjustable w/ locking set screw

Wattage: 5mW

Operating voltage: 3V-5V

Female 2.1 power connector center positive

· Size: 3.3"L x 0.9"Dia.

· Weight: 0.2 lbs.

One-year warranty

143853: Laser module mount

Built to hold laser diode on target X-Y tilt, θ movement
 Weight: 0.5 lbs.

Tightening screw for tilt adjustment

143837: Module regulated power supply

Short circuit protection

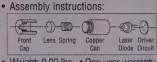
Output: 5VDC @ 100mA

 Input voltage: 95-125VAC, or 190-250 VAC switchable · Size: 2 0"W v 1 7"D v 9 2"H · Weight: 0 6 lbs

016.01		0.9	
Part No.	Description	1-4	5-9
143845	Line laser diode module	\$129.95	\$116.95
143853	Laser diode module mou	int 59.95	53.95
143837	Regulated power supply	14.95	13.49

Laser Diode Accessories

126244: Collimating lens





Class Illa Laser Product

Class Illa Laser Product

· Weight: 0.02 lbs. · One-year warranty

126711: Laser driver w/ regulator • Input voltage: 2.6 - 6VDC

· Input current: 40mA

· Weight: 0.004 lbs. · Six-month warranty 12671:

Part No.	Description	1-9	10-24	25-49
126244 126711		lens\$7.95	\$6.95 8.95	\$5.95 6.95
120/11	Laser univer	9.95	6.90	0.90

Alpec Laser Pointer Pen

• 200 yard range • 670nm red laser • Silver brass

Power requirements: 2 AAA batteries (included)

 Size: 5.4"L x 0.4"Dia. Weight: 0.1 lbs.
 One-year warranty

127749 Laser pointer - pen..

Part No. Description \$49.95 \$44.95

Jameco Laser Pointer Kit

· Light weight

Easy to assemble Power requirements: 2 AAA batteries (incl.)

· Some soldering required • Size: 4.5"L x 1.0"W x 0.6"H

· Weight: 0.4 lbs. · One-year warranty

Part No. Description Price 121339 Laser pointer kit \$34.95

Color PageScan Scanner Produces marvelous

LOGITECH color images and includes everything for installation to scan in

Windows® 3.1 to Windows® 95.

 System requirements: 386 compatible Intel processor (or higher), 3.5" floppy drive, 20MB hard disk space, 8MB RAM, 8MB swap space, VGA monitor and graphics card (256 colors w/ 640 x 480 pixels or higher)

Power supply has 6' AC cord and 6' adapter cord

· Scan 24-bit color, gray scale or line art images

· Detach scanner head from base for scanning large items · Includes parallel port adapter, manuals and software

Size: 13.0"L x 4.5"W x 4.8"H
 Weight: 8.4 lbs.

Description SALE \$149.95 Paper feed color scanner

Mustek 24-Bit Single Pass Flatbed Color Scanner NEW

Optical resolution of 300×600 dpi which can be enhanced with hardware to 600 x 600 dpi and with software to a maximum of 4800 dpi.



Minimum system requirements: 386 PC, 4MB RAM, DOS 3.3, Windows® 3.1 (Windows® 95 compatible)

Full Twain compliance for direct scanning into supported applications

 Wordlinx OCR allows you to scan and recognize text with any Windows® based word processing package

Includes image editing software and drivers for Win Maximum document size: 8.5" x 11.7

Standard parallel port · One-year warranty Size: 16.0"L x 11.5"W x 3.4"H
 Weight: 15.8 lbs. Description Part No.

TwainScan 600 III EP plus ... SALE \$159.95 134455 Paragon 600 IISP (SCSI)

3-Element Glass Lens Laser Module

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many



typical laser applications. Operating voltage: 4.0-6.0VDC (5VDC typical)

Wavelength: 660nm • Maximum output: 4mW

Beam size at 7m: oval - 5mm x 8mm

Beam divergence: 0.2mrad • Green LED indicator Adjustable focus and output power . Weight: 0.1 lbs.

Module size: 2.0"L x 0.5"W • One-year warranty

Description \$49.95

Beam Expander Lenses For use w/laser module 133292 (above)

Adjustable focus range: 50 cm to ∞

Maximum entrance aperture diameter: 4mm

2 element glass lens optics Screws onto module (P/N 133292 - above) easily

Weight: 0.03 lbs. · One-year warranty 133305: 2X expander

Divergence: <0.25mrad • Size: 1.0"L x 0.7" Dia

145613: 10X expander Divergence: <0.05mrad
 Size: 1.5"L x 0.7" Dia Description 1-4 133305 2X Beam expander lens......\$29.95 \$26.95

10X Beam expander lens24.95

Line Generating Lenses

For use w/laser module 133292 (above)

Adjustable focus range: 50 cm to ∞

Focal length: 8.0 mm

Back focal length: 1.5 mm Beam divergence: 2.0 mrad

Lens construction: 3E.3G (glass) Screws onto module (P/N 133292 - above) easily

Weight: 0.01 lbs.
 Six-month warranty

134148: 60° line generator

• Length at 1 m distance: 1.70 m Fan angle: 60° 145613: 4° line generator

Fan angle: 4°

• Length at 1 m distance: 0.07 m 1-4 Description

60° Line generator lens \$19.95 \$17.95 145613 4° Line generator lens14.95

Jameco Infrared Laser Pointer

Applications include optical cards and sensors, audio and communications systems.

Compatible with infrared detector P/N 120221 (pg 31)

808nm @ <5mW Requires (3) #357 type, 1.5V silver oxide batteries . Operating voltage: 3V (not included)

Button switch pad with Velcro patch . Weight: 0.7 lbs.

 Size: 2.0"L x 0.8"Dia.
 One-year warranty Part No. Description Infrared laser pointer.....\$49.95 133532

Relisvs 400 dpi Hand Scanner

· Color depth: 256 shade gray scale

Requires one open DMA channel, 1MB RAM

PC/XT/AT, PS/2 model 25 and 30 or compatibles

• 100, 200, 300, 400 dpi (selectable) • Brightness, text/halftone selectors

PhotoStudio software (3.5") requires Windows®

. Includes 8-bit interface card, driver 3.5" diskette and manual . Weight: 1.4 lbs. . One-year warranty

Part No. Description 132126 256 gray shade scanner.



Price



102 Keyboards, Keypads and Graphics Tablet

QTRONIX. Win '95 101-Kev **Keyboard with Jumbo Trackball**



- PC/AT compatible
 "N-Key" roll-over for quick typists
 Adjustable tilt mechanism
 Tactile click sound and feel
- · Requires DOS 3.0 or higher · One-year warranty
- Menu driven software driver included
- Size: 19.0"L x 6.8"W x 1.4"H
 Weight: 3.7 lbs.

Part No. Description 128717 Win '95 w/ jumbo trackball

1-4 SALE \$89.95

Jameco 101-Key Trackball Keyboard



- PC/XT/AT and PS/2 (using P/N 28003 pg 127) compatible • 101-key enhanced layout with 12 function keys and trackball
- Trackball features: opto-mechanical trackball technology; state-of-the-art microswitches for reliability and feel; 20-6400 dpi variable resolution; pop-up menu software for easy use in programs such as Lotus 123, WordPerfect, DBase, etc.
- · Microsoft® compatible driver on a 5.25" diskette
- Size: 19.0"L x 7.5"W x 1.0"H Weight: 2.7 lbs.

Part No. Description 119044 101-key trackball keyboard Closeout \$39.95

Win '95 104-Kev Kevboard with

Trackball and Palm Rest



- · Ergonomic design with center placed trackball
- Removable palm rest
 Conventional key feel
- Dual connectors: keyboard 5-pin DIN, and trackball 9-pin serial connection on one coiled cable
- · Palm rest extends 3" at furthest point
- Size: 18.5"L x 7.0"W x 1.8"H Weight: 3.8 lbs.
- · One-year warranty

Part No. Description 133760 Win '95 trackball keyboard ..\$49.95 \$44.95

ACECAD Graphics Tablet

· For use with PC/XT/AT and compatibles with MS DOS, Microsoft® Windows® 3.x, Pen DOS and Pen Point operating systems

· Dual transducer ports

Spacious 12" x 12"

AMECO



- ACAD templates and dust cover included
- · Includes 4-button puck, 2-button pen, WINTAB, ADI and MS Mouse Drivers • 2540 LPI resolution
- Easy Auto-Driver installation utility
 Weight: 8.2 lbs.
- Size: 16.0"L x 15.6"W x 1.0"H
 Three-year warranty Part No. Description Price

120117 12" x 12" digitizer tablet\$249.95

Jameco 101-Kev Membrane Kevboard



- . AT/386/486/Pentium® and compatibles
- · Led indicators for Num Lock, Caps Lock, and Scroll Lock Membrane switch
- 12 function kevs w/ separate cursor & numeric kevs
- Size: 18.5"L x 7.0"W x 1.3"H
- · Weight: 2.4 lbs. One-year warranty

101-key membrane keyboard \$19.95 \$17.95

Jameco 84-Key AT Keyboard



- AT/386/486 and compatible computers
- · 84-key layout
- · Compatible with Jameco keypad P/N 114850 (right)
- Tactile feed back
 Size: 12.8"L x 6.6"W x 1.0"H
- · Weight: 2.4 lbs. · One-year warranty

84-key layout AT keyboard.....\$59.95 \$53.95

89-Key Wireless Keyboard

 Wireless device integrated text. pointing, and multimedia functions

 For more complete specifications, see back cover

Description





98-Key Keyboard with Trackball



- PC/XT/AT/ PS/2 or compatibles
- Function lock to use arrow keys that are relocated to accommodate trackball . Built-in tilt mechanism
- Slide switch for XT/AT or PS/2 use
- Includes DE9 cable for trackball and keyboard cable with adapter for PS/2
- Includes 3.5" driver and manual
 Weight: 4.0 lbs.
- Size: 18.0"L x 7.4"W x 1.2"H

Description Price 131289 98-key trackball keyboard .. Clo

Jameco Keyboard Wrist Rest

Reduces typing tension. Helps to prevent Carpal Tunnel Syndrome.



Weight: 0.2 lbs.

· Color: blue

Size: 20.0"L x 3.8"W x 0.8"H

Part No. Description 1-9 10-24 76718 Keyboard wrist rest\$2.95 \$2.49 \$1.49

Jameco 18-Key Keypad

See pays 124 for Macintosis Keyyoard

- · 18-key detachable keypad for 84-key AT keyboard (P/N 114868 - left)
- · Tactile feed back
- · Weight: 0.8 lbs.
- One-vear warranty Size: 6.5"L x 4.1"W x 1.3"H

Description Part No 114850 18-key keypad for 114868\$29.95

Jameco 22-Kev RS232 Kevpad

- PC/XT/AT/ PS/2 and compatible computers
- Tactile click-sound and touch
- Auto repeat function 2-key rollover
- RS232 DE9 connector
- · Includes 3.5" driver diskette and manual
- 9600 bps, data bits: 8, stop bits: 1, start bit: none, no parity
- Size: 6.2"L x 4.2"W x 1.3"H Color: beige
- · Weight: 0.8 lbs. · One-year warranty

Part No. Description 129357 22-key RS232 keypad...... \$49.95 \$44.95

Jameco 32-Key Keypad

Great for use with laptop computers as well as original PC/XT/AT keyboards

- · PC/XT/AT and compatible computers • 32-key layout
- Separate cursor and numeric keys • 12 function keys
- Editing keys include: Escape, Enter, Insert, Delete, Home, End, Page Up, Page Down, Tab, Backspace, Print Screen and Shift
- Serial port required for operation (9-pin)
 - Includes software on 3.5" disk and user manual
- 1200 bps, data bits: 8, stop bits: 1, start bit: 1, no parity Size: 7.6"L x 6.3"W x 1.5"H • Color: beige
- Weight: 1.4 lbs. · One-year warranty

Part No. Description 32-key keypad\$59.95 \$53.95

Jameco Keyboard Drawers

Elevates CPU and CRT 4.0" to alleviate neck tension.

- External size: 22.0"L x 15.5"W x 4.0"H
- Weight: 8.5 lbs.

72881:

Slides underneath desktop for storage.

· External size: 21.5"L x 12.5"W x 1.5"H

· Includes convenient tray for storing pens and other office supplies • Weight: 4.0 lbs.

Part No. Description KB drawer (desktop mounting) \$27.95 \$24.95 KB drawer (mounts under desk) \$ALE 17.95

Jameco Mini Vacuum Cleaner

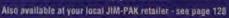
- · Requires 4 AA batteries. P/N 32627 (pg 58)
- · Includes one bent tube and one straight bristled tube Weight: 0.3 lbs.
- Canister size: 1.6"W x 2.3"D x 5.0"H

Part No. Description 10-24 72961 Mini vacuum cleaner...\$9.95 \$8.95



\$1.39 Sale price good at this quantity only

Documentation available at fip.jameco.com



ProXellent "ON-SCREEN" 121-Key **Programmable Keyboard**



- AT/ PS/2 and compatibles
 Two sets of 12 function keys
- Save multiple key layouts for different applications
- · 28 programmable macro keys
- · Repeat rates from 0 to 125 characters per second
- Set key strike validation time from 0.008 to 1.85 sec.
- · Operates on Novell compatible ELS and nondedicated servers • All key locations remappable
- Size: 20.5"L x 8.0"W x 1.8"H
- Weight: 4.8 lbs.
 One-vear warranty

Part No.	Description	1-4	5-9
137453	121-key programmable	ALE	\$69.95

FUJITSU 101-Key Enhanced Keyboard



- · PC/XT/AT/386/486 and compatibles
- · LED indicators for Num Lock, Caps Lock & Scroll Lock
- 101-kev enhanced lavout 12 function keys Separate cursor and numeric keys
- Tactile feedback Includes manual
- Size: 19.0"L x 8.0"W x 1.3"H Weight: 4.4 lbs.
- · Color: beige · One-year warranty

1-4 Description 101-key enhanced\$69.95 \$62.95 17128

QTRONIX. 101-Key **Compact Combo Keyboard**



- PS/2 or PC/XT/AT compatible
 12 function keys
- · Switch for selecting PC/XT or PS/2 (PS/2 requires an adapter - P/N 28003, pg 127)
- LED indicator for Num Lock, Caps Lock
- and Scroll Lock One-year warranty
- Size: 15.8"L x 6.8"W x 1.0"H
 Weight: 2.3 lbs. Part No. Description 133971 Compact keyboard\$29.95 \$26.95

Chicony 101-Key Membrane **Switch Keyboard**



- LED indicators for Num Lock, Caps Lock & Scroll Lock
- 12 function keys with separate cursor and numeric keys
- AT/386/486/Pentium® and compatible computers · Membrane switch · Two-year warranty
- Size: 18.5"L x 7.0"W x 1.5"H
 Weight: 4.0 lbs.
- Part No. Description

123001 101-key membrane switch

Jameco 101-Key **Enhanced Keyboard**



- AT/386/486 compatible · LED indicators for Num Lock, Caps Lock and Scroll Lock
- 12 function keys with separate cursor and numeric keys
- Size: 18.5"L x 7.0"W x 1.3"H Weight: 3.3 lbs.

Part No.	Description 1-4	5-9
78297	AT/386/486 compatible\$22.95	\$19.95

IBM 101-Key PS/2 Keyboard

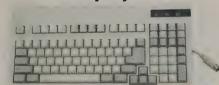


- For PS/2 systems · Tactile feedback
- LED indicators for Num Lock, Caps Lock
- and Scroll Lock 12 function keys
- Use P/N 85500 for AT systems (see pg 127) · Pulled from unused configured systems
- Size: 17.5"L x 6.2"W x 1.0"H
 Weight: 2.3 lbs.

Part No. Description

135474 101-key PS/2 keyboard......\$29.95 \$26.95

EXIOM. Water Resistant 101-Key Keyboard



- IBM AT, PS/2 compatibles
- · 101/102 keys enhanced keyboard
- · Membrane contact technology
- Electrical data: 5VDC @ 250mA
- Operating temp.: 0 to 55°C
- · Operating humidity: 10% to 95%rh
- 21 removable key cap label covers
- Size: 15.5"L x 7.3"W x 1.8"H
- · Weight: 3.2 lbs. · One-year warranty

Part No. Description

141866 Water resistant keyboard\$119.95

Wang 101-Key Enhanced

PS/2 Keyboard



- For PS/2 systems Tactile feedback (solid click)
- . LED indicators for Num Lock, Caps Lock and Scroll Lock • 12 function keys
- Manufactured for Wang by IBM
- · Includes 10' coiled cable
- Size: 19.3"L x 7.5"W x 1.9"H · Weight: 5.8 lbs.

Description Price 101-key keyboard for PS/2 132599

Jameco 104-Key Ergonomic **Keyboard for Windows® '95**



Wide "V" angle conforms to natural position of hands!

- AT and PS/2 compatibles
- PS/2 requires adapter P/N 28003 (pg 127)
- · Weight: 3.0 lbs. · Built-in wrist rest
- Size: 19.6"L x 9.5"W x 1.3"H One-year warranty

Part No. Description **136661** Win '95 ergonomic keyboard **\$29.95**

DTRONIX. Win '95 104-Key Keyboard



- Ergonomic style For IBM PC/AT or compatibles
- · Adjustable tilt mechanism · Detachable wrist rest
- Tactile key stroke-high quality rubber mechanical . Permanently attached 6' cable key switches
- Size: 18.8"L x 7.5"W x 1.0"H
- Weight: 2.9 lbs.
 One-year warranty

Part No. Description 135482 Windows® 95 keyboard......

QTRONIX. Win '95 104-Key Keyboard



- Ergonomic style For IBM PC/AT or compatibles
- · Adjustable tilt mechanism
- · Tactile key stroke-high quality rubber mechanical key switches
- · Permanently attached 6' cable · N-key-roll-over
- Size: 18.5"L x 7.2"W x 1.0"H Weight: 2.6 lbs.

Part No. Description 1-4 128813 Windows® 95 keyboard...... \$19.95 \$17.95

101-Key Ergonomic Keyboard



Ergonomically designed in a wide "V" angle to conform to the natural position of hand placement for data entry.

- PC/AT and PS/2 compatible
 101-key enhanced layout
- Size: 21.0"L x 7.6"W x 1.2"H Weight: 4.6 lbs.

Part No. Description 132020 Ergonomic keyboard

\$19.95 IAMECO

Price



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com

Great for

Industrial Applications!

Price

104 JAMECO Input Devices and Accessories

Microsoft® Intellimouse

Microsoft® Office '97 Compatible

Combines the traditional left and right mouse button with a scroll button that makes it easier to zoom and scroll right at your fingertips.



 For complete specifications, see back cover

Part No. Description 1-4 145488 3-button serial with scroll....\$54.95 \$49.95

2-Button Optical Laser Mouse

Uses an optical fiber engine which has non-mechanical precision control. Select mouse mode, sketch mode for 1 to 1 precision, or joystick mode.



- For 486 and Pentium® PCs
- Use with optical mouse pad (included)
- High resolution: 525 dpi High speed: 1200 mm/s
- Automatic double click function-middle button clicking
- Compatible with Microsoft® mouse and Windows® 95 9-pin D-sub connector · One-vear warranty
- Includes 6.1"L x 6.9"W pad and manual
- Size: 4.4"L x 2.3"W x 1.4"H
 Weight: 0.9 lbs.

Part No.	Description	Price
133284	Laser mouse w/ optical pad	\$39.95

2-Button Ergonomic Serial Mouse

- Ergonomically designed to help prevent strain Variable resolution 6400 dpi
- · PC/XT/AT and compatible
- · Microsoft® mouse compatible
- 3.5" installation software
- included . One-year warranty

• Size: 4.4"L x 2.6"W x 1.6"H • Weight: 0.5 lbs. Description

2-button ergonomic mouse. SALE \$14.95 139117

3-Button Ergonomic Mouse

- · PC/XT/AT and compatibles
- . For 9-pin serial port: 25-pin ports require adapter P/N 10321 (pg 125)
- · Middle button locks left or right button
- Serial mouse 3.5" setup disk
- Size: 4.8"L x 2.5"H x 1.6"W Weight: 0.5 lbs
 Part No.
 Description
 1-4
 5-9

 128733
 3-button ergonomic mouse..\$12.95
 \$11.49

3-Button Ergonomic

Serial Mouse · Variable resolution to 6400 dpi

- PC/AT/Microsoft® compatible
- Size: 4.6"L x 2.5"W x 1.5"H
- · Weight: 0.5 lbs

Part No. Description 139281 Ergonomic mouse..... SALE \$13.49

Microsoft® 2-Button Mouse

- · Serial mouse
- PC/XT/AT/386/486/ PS/2 and compatible computers
- · Includes Microsoft® setup diskette and manual
- · Includes DE9 connector
- Size: 4.5"L x 2.5"W x 1.4"H
- · Weight: 0.6 lbs

Part No. Description Price

Genius 3-Button NetMouse

A new innovative way for browsing the Internet, Windows®, and long documents. With the magic button feature you can easily scroll through



- your Windows® and documents with ease. Special control panel included . Weight: 0.5 lbs.
- 2-button Microsoft mouse mode compatible
- Includes Netmouse software, PS/2 pin adapter
- Size: 4.5"L x 2.5"W x 1.5"H One-year warranty

Part No. Description 141815 3-button serial with scroll SALE \$26.95

Jameco 3-Button Mouse

- · Serial mouse
- PC/XT/AT/ 386/486/ PS/2 (serial port only) and compatibles
- Microsoft® Mouse compatible
- Size: 4.3"L x 2.3"W x 1.2"H
- Weight: 0.5 lbs. One-year warranty Part No. Description

104441 Serial mouse......\$10.95 \$9.95 \$8.95

3-Button Cordless Mouse

- · PC/XT/AT or PS/2 and compatibles
- Switch selectable for Microsoft® 'MS(2)" and PC-mouse mode "PC(3)" position
- Active up to 9 feet, 160° angles vertically and horizontally
- 8 hours operation with built in sleep mode
- Includes charger stand, cable with PS/2 adapter, 12V power supply, driver software and manual
 • Size (in charger): 2.5"W x 2.2"D x 5.5"H
- · Weight: 1.6 lbs.

 Part No.
 Description
 1-4
 5-9

 128725
 3-button cordless mouse\$39.95
 \$35.95

QTRONIX. 4-Button Joystick with View Control

- · IBM PC/XT/AT or 100% compatible
- Precise analog design for best accuracy
- Rotary control for extra thrust. 4 fire buttons for easy access, x and y axis trim controls
- · 4 way view control for applica-
- tions that support this feature Auto centering with realistic
- control feedback
- Wide sturdy base for stability and smooth contoured stick for reduced hand fatigue
- Switch selectable for thrustmaster or CH products compatibility
- . 5' cable length w/ 15-pin D-sub connector (DA15P)
- Size: 10.0"L x 7.0"W x 9.0"H Weight: 3.1 lbs.

Part No. Description 141364 4-button joystick. \$44.95

Jameco Mouse Pad

San Francisco skyline!

- · Smooth-gliding plastic coating on top surface
- Tough non-skid neoprene backing
- Size: 8.7"L x 9.8"W Weight: 0.1 lbs.

Part No. Description 10-24 25-49 1-9 26307 Mouse pad.....\$2.95 \$2.49 \$1.95

Jameco Trackball with **Menu Software**

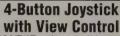
- PC/XT/AT or PS/2 and compatibles
- Over 24 software menus to ease use of Lotus, dBase, WordPerfect and more
- Variable resolution (20-6400 dpi)
- Convenient button lock feature for holding while dragging and drawing . One-year warranty

• Ergonomic design for comfortable feel • 3.5" disk Size: 5.5"L x 4.6"W x 2.0"H
 Weight: 1.2 lbs.

Description PC trackball w/ software\$29.95 \$26.95 128995

Jameco PC Trackball

- PC/XT/AT/386/486 and compatibles
- 290 dpi Includes mouse
- driver and DE9 connector
- One-year warrantySize: 4.0"L x 5.0"W x 1.1"HWeight: 0.8 lbs. Part No. Description 110015 Serial trackball..... \$22.95 \$19.95



- PC/XT/AT and compatibles
- · Four-way view control where applications support this feature
- Smooth contoured stick
- High speed turbo function and rotary throttle control
- Four suction cups for desktop mount
- Size: 5.3"L x 6.5"W x 8.0"H
 Weight: 1.2 lbs.

Part No. Description \$19.95 128768 4-button view joystick \$17.95

4-Button Joystick

- · Ergonomic design
- PC/XT/AT compatibles
- · Four suction cups hold joystick during play
- High speed auto-fire
- · 2 positive response fire buttons
- Includes 5' long, 15-pin connector cable
 Weight: 0.8 lbs.
 Size: 4.5"L x 4.5"W x 7.0"H

Part No. Description 4-button joystick

Price \$4.95

Jameco Dual Port Game Card

- XT/AT/386/486, PS/2 models 25, 30 and compatibles Enables two people
- to play a game at the same time
- Uses standard IBM-type joysticks
- Two game ports

· Weight: 0.2 lbs. Part No. Description

· Easy to install · One-year warranty 10-24

105515 Dual port game card

Mini Mouse Pad Perfect cramped workspace solution!

Smooth-gliding cloth surface on top

Tough non-skid neoprene backing Size: 7.0"L x 5.5"W

• Weight: 0.1 lbs 10-24 25-49 Part No. Description 1-9

121363 Mini mouse pad......\$1.95 Documentation available at ttp.jameco.com



\$1.75 \$1.49

\$11.95



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less



Also available al your local JIM-PAK retailer - see page 128

UMAX 3D Accelerator PCI Graphics Card



Designed for systems using PCI bus architecture, this card incorporates a 192-bit internal bus and triple 64-bit S3 Vision 864 GUI accelerator chips, with their own dedicated display memory

- High resolution and true color, supports display resolutions from 640x480 to 1600x1200 pixels. with color depths of 8 or 24 bits per pixel
- Color calibration utility Parallel processing Virtual desktop, hardware panning and zooming
- 100% IBM VGA compatible, with full register CGA, Hercules and MDA backwards capability
- Enhanced true color windows drivers
- Includes manual and software
 Size: 10.9"L x 4.25"H
- · Weight .: 1.2 lbs.

Part No.	Description	1-4	5-9
146131	PCI Accelerator Card	\$99.95	\$89.95

Multimedia 2D/3D Graphics/Video **Accelerator Card** Upgradeable to 4MB

- Drivers support DOS, Windows 3.1 through 95, NT. OS/2
- DRAM based 2D/3D graphics and video
- accelerator 64-bit 2D/3D
 - graphics/video chip . Extended graphics mode up to 1600x1200 high resolution
- Upgrade from 2MB to 4MB using (4) 256K x 16, 40-pin, SOJ DRAM chips (P/N 128688 - pg 16)
- Register & BIOS level compatible w/ IBM VGA adapter Supports MPEG full motion video playback
- Includes video drivers and game pack . Wt.: 1.0 lb.
- Size: 7.0"L x 3.7"W One-year warranty

Part No.	Description			Price
40708	PCI bus VGA	card	SALE	\$79.95
				_

Jameco Monochrome/CGA **Graphics Adapter Card**

- PC/XT/AT and
- compatible computers Monochrome (MDA); also supports Hercules graphics standards (HGA)
- Compatible with
- IBM color graphics standard (CGA)
- Text mode: 80 x 25 Includes manual
- Graphics mode: 720 x 348 Parallel printer port Weight: 0.3 lbs. One-year warranty

Part No. Description 91230 CGA & mono graphics adapter \$29.95 \$26.95

Troubleshooting and Repairing Computer Monitors (1997)

- · CRT alignment and degaussing · State of the art plasma displays
- · Specs. and architectures of monochrome, CGA, EGA, and VGA monitors
- Supports both CRT and LCD monitors • 304 pages

Same Day

Shipping!

Size: 9.5" x 7.5" • Weight .: 1.5 lbs.

5-9 Description 123764 Troubleshooting Monitors...\$29.95 \$26.95

Jameco PCI Graphics Card

- Intel Pentium® or 486
- MS DOS 5.1 of

NEW

- Connector: 15-pin (DA15) Output: analog RGB
- CD-I playback · One-year warranty

3.11, NT and 95, and OS/2 • Weight: 0.6 lbs. Part No. Description

132441 PCI graphics card

Jameco 16-Bit VGA Card

8/16-Bit Bus Autosense

- · PC/XT/AT/386 and compatibles
- Supports PS/2 and multi-sync analog monitors Emulates VGA
- EGA, CGA, MDA and Hercules Graphics modes
- . Includes 256KB video RAM expandable to 512KB by adding (2) 514256P-80 chips
- Capable of 640 x 480 with 256 colors, 800 x 600 with 16 colors, 1024 x 768 with 16 colors (512KB) RAM required) • 8 or 16-bit bus (autosense)
- Output: DA15 high density
- · Extended text display: 80 column text modes
- in 60 lines, 132 text modes in 25, 43, 60 lines Supports 34 video modes including 24
- standard and 10 enhanced modes Includes manual and software
- Weight: 0.4 lbs. One-year warranty
- Part No. Product No. Description SALE VG7700A VGA card.....

\$44.95 Jameco 16-Bit Super VGA Card

- PC/XT/AT/286/386, PS/2 Models 25 and 30, and compatibles
- 1024 x 768 resolution in
- non-interlaced and interlaced modes Supports 256 colors in 1280 x 1024 resolution
- (2MB video RAM required) Output DA15 (analog) Includes 512KB video RAM, expandable to 2MB
- by adding three P/N 128688 chips (pg 16)
- Supports VESA standard graphics and text modes Emulates VGA, EGA, CGA, MDA and Hercules modes
- Includes manual and software
- · Weight: 0.5 lbs. · One-vear warranty
- 104660 Super VGA card......\$89.95 \$80.95

Jameco 8088 Multi I/O Card for IBM PC/XT

- One game port for IBM com-
- patible joystick (pg 104)
- One serial port with IRQ 3 or 4, Com ports 1, 2, 3
- Real-time clock-calender with replaceable battery backup
- Note: floppy drive controller is not operational Monochrome and parallel printer port:
- Text mode: 80 x 25 and graphics mode: 720 x 348 Includes driver software for calender, print spooler,
- cables, brackets and manual . Weight: 1.9 lbs. Part No. Description 19887

Jameco 24-Bit VESA **Graphics Accelerator Card**



Increases the speed of graphics and windowing programs by up to 15 times that of standard VGA.

- Provides 24-bit true color at 640 x 480 pixels, 16M colors
- . On board memory: 1MB. Expandable to 2MB using 256K x 16 DRAM P/N 128688 (pg 16)
- Non-interlaced/interlaced modes supported
- One 15-pin female analog connector
- Weight: 0.7 lbs.
 One-year warranty

Description Graphics accelerator \$59.95 \$53.95 137285

Jameco 64-Bit VESA Graphics Accelerator Cards

- 132935: 1MB expandable to 2MB
- 130913: 2MB only

.\$69.95



130913

99.95

- Non-interlaced resolution and Zero-Flicker™ refresh rates provide you with exceptional versatility and display clarity
- VESA-compliant 28-pin feature connector for multimedia applications
- · Full VESA and VGA selectable modes
- Includes 3.5" disk with display drivers for Windows® Win95, OS/2 versions 2.1, 2.11, Warp 3.0, as well as a host of other display utilities to enhance your

graphics productivity Includes manual Part No. Description Wt. (lbs.) Price Graphics card (1MB) 0.6... \$49.95 132935 Graphics card (2MB)

Jameco Monochrome **Graphics Adapter Card**

1.4.

 PC/XT/AT and compatibles

130913

- Monochrome (MDA); also supports Hercules
- graphics standards (HGA)
- Parallel printer port · Graphics mode:
- 720 x 348
- Text mode: 80 x 25
 Includes manual
- · Weight: 0.3 lbs.

One-year warranty

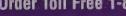
Part No. Description 19684 Monochrome graphics adapter...\$17.95 \$15.95

Jameco Monochrome Graphics Adapter Card with Software

- · PC/XT/AT and compatibles
- · Monochrome (MDA); also supports Hercules graphics standards (HGA)
- Graphics mode: 720 x 348
- Text mode: 80 x 25
- Parallel printer port
- · Manual and software included Weight: 0.8 lbs.

Part No. Description 139045 Monochrome adapter w/ software SALE \$14.95



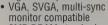


Order Toll Free 1-800-831-4242 BBS 650-637-9025

- 2MB on Board
- or higher compatible







2MB DRAM standard on board

· 64-bit true color with MPEG drivers

Video formats: INDIO 3.2, Cenepak, MS-Video,

Includes drivers for Windows® for Workgroups

GME Computer Monitor Tester

The model MT830 is an easy to use portable tester that helps you troubleshoot, test, and align computer monitors quickly!

Test MDA, CGA, EGA, VGA and Super VGA resolution monitors

· Both digital/TTL 9-D and analog 15-HD

· Checks color bars, color raster (white, red. green, blue), dots, crosshatch and windows

· Power with either a 9V battery or an external AC adapter (P/N 134025 - pg 62)

Size: 5.6"L x 3.7"W x 1.8"H • Weight: 0.6 lbs.

One-year warranty

Part No. Description 137761 Computer monitor tester...... .\$139.95

CMM Computer Monitor Tester. Pattern Generator

· Tests CGA, EGA, VGA SVGA and Mac-II monitors

· Provides a gray scale

for VGA monitors

· Scan rates up to 64kHz · Maximum resolution: 1024 x 768 interlaced

and non-interlaced modes

· MAC-II sync on green, SVGA has option

· Output level: 7V analog RGB, TTL levels for sync

 Includes MAC-II adapter and AC adapter – 9VDC @ 125mA (9V battery included) • One-year warranty

• Size: 5.5"L x 3.4"W x 1.4"H • Weight: 1.6 lbs.

Part No. Description 134092 Computer monitor tester \$299.95 \$269.95

Audio/Video NTSC Monitor Tester

· Up or down keys allow you to select from 9 monitor patterns

Composite video out: 1V p-p into 75Ω

· Audio out: 1kHz 1V p-p into 1K

· Scanning lines: 525, 2:1 interlace

 Horizontal frequency: 15,734kHz

· Vertical field frequency: 59.94Hz

Compliance: RS 170A

· Includes four 1.5V, AA batteries and one 6V @ 200mA wall transformer

Size: 3.2"W x 1.7"D x 5.8"H
 Weight: 1.2 lbs.

· One-vear manufacturer's warranty

Part No. Description Audio/video monitor tester \$299.95 \$269.95

Monitor/TV Wall Mount Bracket

For 14" to 18" monitors/TVs



· Double arm · Assembly required

Will support up to 60 lbs.
 Color: black

· Does not include wall mount screws

· Requires unit base be mounted securely to wall stud

· Weight: 9.5 lbs. · One-year warranty

Description 5-9 Monitor/TV wall mount......\$39.95 133840 \$35.95

SHINHO 15" Multi-Synch **Color Monitor**

 PC/XT/AT 386. 486. Pentium and compatibles

0.28mm dot pitch

Power Management System, Plug and Play built-in (connects easily to Windows® '95)

 Resolution: 1280 x 1024 (non-interlaced @ 60Hz)

Resolution: 1024 x 768 (non-interlaced @ 75Hz)

UL/CSA/FCC/TUV

Input voltage: 90 - 264 Volts AC, 60Hz/50Hz

· Includes manual, cable, swivel and tilt base, and detachable power cord . Analog . Weight: 29.0 lbs.

Size: 14.2"W x 15.8"D x 14.8"H

· Three-year warranty

Part No. Description **Price** 126164 15" Multi-Synch monitor SALE \$279.95

SHINHO 14" Ultra VGA **Color Monitor**

 PC/XT/AT 386. 486. Pentium® and compatibles

· 0.28mm dot pitch Resolution:

1024 x 768 (non-interlaced)

 Input voltage: 100 - 240 Volts AC, 60Hz/50Hz Includes manual, cable, swivel

and tilt base, and detachable power cord . UL/CSA • Size: 13.8"W x 12.4"D x 15.1"H • Analog

· Weight.: 22.0 lbs. · Three-year warranty

Part No. Description 130171 14" Ultra VGA monitor. \$219.95

EYE : • 14" VGA Amber Monitor

 PC/XT/AT 386. 486. Pentium® and compatibles

Tilt/swivel base

Power requirements: 90-125VAC 35 watts

Scan frequency Horizontal: 31.5kHz Vertical: 60Hz, 70Hz

· Includes manual and cable

Display area: 10"W x 7.75"H

. HDDB 15-pin connector (standard VGA)

· Front panel for brightness and contrast control, power switch . Maximum resolution: 720 x 348

Back panel for vertical size, focus,

H phase, and sub-brightness • One-year warranty

• Size: 12.5"W x 13.0"D x 11.3"H • Weight: 18.2 lbs.

Part No. Description 142017 14" VGA amber monitor\$139.95 \$125.95

AMECO Anti-Glare Screen Filter

· Attaches with velcro and/or double-sided tape (provided)

Color: double-sided black/gray frame

Size: 11.6"W x 9.8"H

· Weight .: 0.6 lbs. Part No. Description

18518

14" anti-glare screen filter SALE

\$5.95 FTP

EVE • 14" White Monitor

486. Pentium^e and compatibles

Maximum resolution: 720 x 348

Power requirements: 90-125VAC 35 watts

· Scan frequency Horizontal: 31.5kHz Vertical: 60Hz, 70Hz

Display area: 10"W x 7.75"H

Front panel for brightness and contrast control, power switch • HDDB 15-pin connector (standard VGA)

· Back panel for vertical size, focus, H phase, and sub-brightness Tilt/swivel base

· Includes manual and cable One-vear warranty

 Size: 12.5"W x 13.0"D x 11.3"H • Weight: 18.1 lbs. Part No. Description 142025 14" VGA white monitor \$139.95 \$125.95

Hyundai Full Page Monitor

PC/XT/AT and compatibles

 15", portrait-oriented. monochrome display

 Works in full page mode with the most popular word processors

Non-glare screen

· Full page screen drivers for many popular programs

· Works with any IBMcompatible VGA system - no special video controller needed

Scan frequency: Horizontal: 31.5/35.5kHz Vertical: 56/58/60/62/70Hz

 Resolution: 640 x 350, 720 x 400, 640 x 480, • Power: 120VAC 640 x 550, 640 x 600

Size: 11.7"W x 15.0"D x 13.9"H • Weight: 26.0 lbs.

Description 127909 Full page monochrome Clo \$59.95

IBM 12" EGA Paper White **Monochrome Monitor**

EGA compatibility

• Input: DE9-pin (TTL)

· Horizontal scan freq.: 15.75 - 21.85kHz

Maximum resolution: 640 x 350

· Bandwidth: 25MHz

· Plugs into power supply aux. outlet

Size: 12.9"W x 13.0"D x 12.3"H
 Weight: 22.5 lbs

Part No. Description

131369 12" EGA paper white monitor... Closeout \$49.95

Zenith 12" Green Monochrome Composite Monitor VALUE

• 120VAC @ 0.31A-60Hz

· Picture width control

 Includes male BNC/RCA adapter cable for use with cameras

Vertical/horizontal/ brightness control

Size: 12.0"W x 12.0"D x 12.0"H
 Weight: 20.5 lbs.

Part No. Description 133381 12" green monitor w/ cable

\$53.95

\$1.39 Sale price good at this quantity only





Video Cameras, Converters and Accessories 107

IAMECO 2400MHz CCD Wireless Audio/Visual Observation System

With the ultrahigh frequency transmission of this unit you will get excellent audio and visual



clarity in your monitoring applications. 4-channel transmission/receiving modules

Receiving module automatically receives new signals as new cameras are added, can be adjusted to mute or changing intervals of scanning

Expandable to 4 cameras • VCR ready for recording Frequency: 2400-2481 • Resolution: 380 TV line Frequency: 2400-2481 Operating distance: 150M outdoors; 60M indoors

• Dimensions: camera: 4.3"L x 2.3"W x 2.0"H receiver: 7.5"L x 5.5"W x 1.3"H

 Includes cables, 2 AC adapters, mounting bracket, manual & case
 Weight: 7.0 lbs.
 One-year warranty Description 2400MHz observation sys......\$329.95

1/3" Black and White CCD Camera

 Camera lens is adjustable with rotating housing

Red LED active indicator Auto iris control • 380 line

resolution . Composite output Electronic shutter 0.5 lux with F1.6/1 lux w/ F1.8

12VDC @ 500mA power supply included 2.1mm female center positive

Mating connectors: Power: 2.1mm female (P/N 28759

pg 62) Video: RG59 BNC (P/N 71271 - pg 49)

Wall mounting bracket included • Weight: 1.3 lbs.
 Size: 2.4"L x 2.2"W x 2.0"H • One-year warranty

Part No. Description 128792 Enclosed B/W CCD camera.... \$4149.95

JAMECO Video Transmitter Station

This powerful device transmits from a source location to any number of remote locations through TVs.

 Transmit/receive: channels 7-13 · Dual color LED function indicators

Use with a camcorder for stereo audio sound · Adjustment screws for volume, brightness

and signal with test pattern switch Removable telescoping antenna included

Type F connector for cable & larger antennas to increase broadcast range • Includes audio & video cables Transmitter dimensions: 5.5"L x 3.5"W x 1.2"H

· Weight: 1.3 lbs. · One-year warranty

Description \$39.95 131828

AMPEQ PC Amplifier and Equalizer

 7 band equalizer allows you to adjust sound to your personal liking: music, bass, treble, and more 30 watts per channel

 Connect up to four computer passive or Hi-Fi speakers · Universally compatible with all sound

cards, CD-ROM, Mpeg, and TV tuners Includes cables, mounting screws & back panel brackets
 Size: 5.9"L x 3.9"W x 0.9"H
 Weight: 0.8 lbs.

Part No. Description PC amplifier & equalizer\$49.95

Hand-Free Condenser Microphone · Cord length: 8

3.5mm male stereo plugSize: 1.9"L x 1.2"W x 0.3"H

 Weight: 0.1 lbs One-year warranty Part No. Description



10-49 1-9 Condenser microphone\$5.95 \$5.35

COMPRO™ Digital Camera

Provides plug-and-play Windows® 95 compatible high resolution motion and still image capture in color! Designed to interface through the



parallel port of a PC, images captured by the camera are directly transmitted to the PC to be processed with software or

stored in industry standard image formats.

• Minimum system requirements: 286 IBM compatible PC or laptop, 4MB RAM, EGA, VGA/SVGA adapter, WIN 3.1, and a 1.44MB floppy disk drive

· No video capturing card needed

· 256 gray scale and 16.8 million true color fonts

 Includes: camera stand, keyboard connector for PS/2 or NB, parallel port interface unit, driver and manual Includes Netscape Navigator Gold 3.0 & D-viewer software

Up to 640 x 480 resolution
 One-year warranty

 Size: 4.3"L x 2.4"W x 1.6"H · Weight: 2.2 lbs.

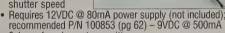
Description Digital camera.....\$149.95 134421

SHARP Camera Board

EIA system 512(H) x 492(V)

 Composite output – 380 lines resolution 1/50 to 1/1000 sec.

shutter speed



2.1mm female center positive Mating connectors: Power: 2.1mm female (P/N 28759 – pg 63) Video: RG59 BNC (P/N 71271 – pg 49)

Size: 1.5"L x 1.5"W x 1.0"H • Weight: 0.1 lbs.

Part No. Description 127263 Camera board\$129.95 \$116.95

Color PC Board CCD Camera

· 380 line resolution

NTSC format (510H x 492V)

Sensor: Sony 1/3" interline transfer CCD

S/N ratio: more than 48dB

Auto electric shutter: 1 to 1/100,000 sec. linear

Lens: 3.6mm / F2.0 • Focus range: 10mm to infinity

Video output: 1Vp-p, 75Ω (mating connector BNC type: P/N 135618 – pg 53) Automatic gain control • Automatic white balance

Requires: center positive 12VDC @ 150mA (mating connector: P/N 28767 – pg 63)
Recommended: transformer P/N 100095 – pg 62

Size: mother card: 2.3"L x 1.7"W; analysis card: 2.0"L x 1.7"W; sensor card: 1.7"L x 1.1"W x 1.0"H

· Weight: 0.2 lbs.

Part No. Description Color camera board \$249.95 139571

Omni-Directional Microphone Headset

Lightweight/durable construction

· Swivel microphone arm pivot

· Flexible microphone arm

· Weight: 0.3 lbs. · One-year warranty

Part No. Description
132302 Microphone headset. \$12.95 \$11.49

Desktop Microphones

· Neck length: 17.5"

Weight: 130180: 0.3 lbs. 129963: 0.1 lbs.

 One-year warranty Description

Goose neck desktop mic. ..\$19.95 130180 129963 CD-ROM microphone.



10-24 \$17.95

Plus PC to TV **Converter Box**

· Converts VGA video to standard NTSC or PAL and Macintosh® 640 x 480 to standard NTSC

Simultaneous monitor display (VGA and TV) Built-in flicker filter

Resolution: 640 x 480 (NTSC) or 800 x 600 (PAL)

System requirements: VGA-based PC, DOS 3.0 or higher, 640KB RAM or larger • TV brightness control Compatible with Microsoft® Windows® 3.0 and higher

Package includes: compact PC to Video converter box, transformer, utilities diskette, cables, and instruction

manual • Two-year warranty • Color: gray Size: 6.0"L x 4.0"W x 1.0"H • Weight: 2.4 lbs.

Description \$99.95

105208 Converter box.

A Plus Sound **PC to TV Converter**

Price

· Supports all IBM standard video modes & high color modes (256/32K/64K colors) resolution up to 640x480 in NTSC

Simultaneous graphics display both on VGA monitor and TV

UnderScan and OverScan . TV brightness control and color control • Input: VGA D-sub connector

Output: composite RCA connector, S-Video connector, RGB (15kHz) D-sub connector, VGA (31kHz) D-sub connector

Microphone or line input, 8/16 bits data format

Mixing output from microphone/line input, wave format and FM synthesizer . Weight: 3.9 lbs.

Input/output: parallel 25-pin D-sub connector

Part No. Description \$99.95

Computer-To-TV Converter

Universal version supports IBM (286 or higher model) and any Macintosh supporting the Mac standard display modes

Easy plug-and-go features Remote control allows adjustment of

picture quality, panning, freezing and zoom features AV. S-VHS, VGA monitor cables & 12", 14" terminators

AC adapter
 Two-year warranty

Size: 8.2"L x 4.4"W x 0.8"H
 Weight: 3.4 lbs.

Part No. Description

126800 Computer-to-TV converter.. Closeout \$239.95

IAMECO RF Modulators

 Output frequency: NTSC Ch. 3/4, switch selectable 135191: Video RF Modulator Operating voltage:

8.0V typical, 13.5V max. RF output impedance:

75 Ω (RCA type connector)

Video modulation: 1.0V p-p max.

Audio FM deviation: 1.5V p-p max PC connections: solder pin connectors

• Size: 1.3"L x 1.3"W x 0.6"H • Weight: 0.1 lbs.

141639: Audio/Video RF Modulator

 Operating voltage: 12V@ 50mA max. RF output impedance: 75Ω (F-type connector)

Video modulation: 1.0V p-p Audio FM deviation: 1.4V p-p

PC connections: solder tab connectors

Size: 1.7"L x 1.7"W x 0.7"H • Weight: 0.1 lbs. Part No. Description 1-4 10-99

100+ 135191 Video RF modulator \$4.95 \$3.95 \$3.49 141639 Audio/Video RF mod.4.95



135247

108 CD-ROM Drives and Multimedia Kits

Internal CD-ROM Drives

Select a speed to

128KB

See page 127 for CO-ROM Cables!

.99.95

See page 113 for CD-ROM Cases!

. 5.25" half-height design

Philips

Mitsumi 8X

IBM

BCD

- · Include software
- · Include audio cable
- · One-year warranty

131342 Creative

Part No. Mfg.

133031

140679

134244

141233

			133031	V E	
d in	nterface/Type	Buffer	Speed	Weight	Price
E	IDE		600KB/sec.	2.5 lbs	.\$49.95
Α	TA/EIDE	256KB	900KB/sec.	2.5 lbs. Closeout	69.95
Α	TA/EIDE	256KB	900KB/sec.	2.2 lbs	69.95
Α	TAPI/EIDE	256KB	1200KB/sec.	2.2 lbs	89.95

2380KB/sec.

NEC 4X IDE CD-ROM Drive with 4-Disc Changer

16X ATA/EIDE

4X

6X

6X

With this 4-disc changer you can mix different media types and access a dazzling 600KB/sec.! · Use with enhanced IDE interface

- (P/N 127386 - pg 111)
- · 600KB/sec. data transfer rate, 150KB audio
- 128KB internal cache buffer
- Selection button for each drive with indicator
- Includes 3.5" driver disk
 5.25" half height design
- · Cables not included recommend P/Ns 72805 and 127546 (pgs 126-127)
- Weight: 2.7 lbs.
 One-year warranty

Part No. Description Price 133508 4X4-disc CD-ROM drive..... Clo \$74.95

Roadrunner External 16X CD-ROM DISCTEC

2.8 lbs.

Parallel port connection 486SX or better

- compatibles Compatible
- with both standard and bi-directional ECP/EPP parallel port protocols
- 2400KB/sec, data transfer rate
- Can daisy chain up to 8 compatible devices plus a printer via pass-through connector
- · Power indicator, volume control and headphone lack
- Includes power adapter and parallel cable
- Size: 6.5"L x 10.3"W x 2.4"H
- Weight: 5.7 lbs.
 One-year warranty

Part No. Description Price External 16X CD-ROM..... 145322 \$249.95

4X, 8X and 12X Complete **Multimedia Kits**

These 4X, 8X and 12X complete multimedia kits deliver lightning speed, with an advanced synthesizer sound card, powerful 132062 amplified speakers and software titles - all with

Microsoft® 16-bit plug-and-play compatibility!

- Transfer rates: 4X 600KB/sec., 8X 1200KB/sec., 12X - 1800KB/sec.
- Minimum system requirements: IBM PC/AT or compatible PC (486 or higher recommended), 2MB RAM (4MB or higher recommended), approximately 4MB of hard disk space, EGA display adapter (VGA or higher recommended), Microsoft® 3.1 or higher (for Windows Applications), DOS 3.3 or higher
- True 16-bit stereo sampling, single plug-and-play chip supports audio, joystick port, game port, FM, MPU401 and MIDI interface, CD-ROM and additional user defined I/O device, OPL4
- Supports IDE CD-ROM drive interface and built-in CD audio jack . Includes drivers. CD data and audio cables, CD-ROM titles . One-year warranty

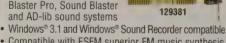
Part No.	Description	Wt. (lbs.)	Price
132062	4X CD-ROM multimedia kit	5.3 \$1	19.95
135511	8X CD-ROM multimedia kit	6.414	19.95
143861	12X CD-ROM multimedia ki	t 6.41	59.95

Multimedia Speakers and Accessories

See page 53 for unassembled speakers!

JAMECO 8-Bit and 16-Bit **Sound Cards**

- 386/486/Pentium[®] and compatibles
- . Input: line-in. CD audio. music synthesis and mic Joystick/MIDI port connector
- · Programmable volume control (16-bit @ 2.3W/CH)
- · Compatible with Sound Blaster Pro, Sound Blaster and AD-lib sound systems



- Compatible with ESFM superior FM music synthesis
- · P/N 134498 has an enhanced IDE interface
- for CD-ROM . Includes software

Part No.	Description	Weight (lbs.) 1-4	5-9
129381	8-bit sound card	0.4\$29.95	\$26.95
134498	16-bit plug & play	/ 0.7SALE	39.95
ENIGO	110.0		

ENSONIQ Soundscape 32 Sound Card With 32-bit resolution wavetable synthesis

· 32 voice capability, 32 note polyphony

- · PC/XT/AT and
- compatibles DOS 5.0/Windows® 3.1 and up
- Includes 128 General MIDI instruments, Roland MT-32 sound sets and AdLib/ SoundBlaster emulation



- · Software allows you to record and playback MIDI files
- Installation disks including Windows® 95
- Includes manual Weight: 1.1 lbs. One-year warranty Part No. Description Price

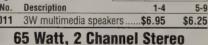
135431 Sound card w/ wavetable ...

3 Watt Digital Speakers Multimedia speaker system for computers.

3 watt, 4Ω non-amplified

• Size: 3.7"W x 2.7"D x 4.5"H

· Weight: 1.1 lbs.



Amplified Speakers

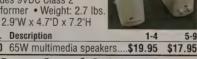
• 65W (P.M.P.O.) self amplified per set (2) · Headset jack

Volume controls

Includes 9VDC Class 2 transformer • Weight: 2.7 lbs.

Size: 2.9"W x 4.7"D x 7.2"H

Part No. Description 140020 65W multimedia speakers....\$19.95 \$17.95



Super Sound Origins 3D+ 16-Bit Stereo Sound Card

· 3D special sound effects

Requirements: IBM or compatible (AT, 286, 386, 486, Pentium®), 2MB RAM (4MB for Windows® 3.xx, 8MB for Win®



- Synthesizer technology plays up to 20 instruments at once
- Supports ISA plug and play CD-ROM interface MIDI interface/joystick port • Digital/analog mixer
- Software drivers (3.5" disks) included · Weight: 0.5 lbs
- Part No. Description 140265 16-bit stereo card

· One-vear warranty 1-4 SALE

120 Watt Amplified-Multimedia Speaker System

• 120W (P.M.P.O.) self amplified per set (2) • Volume, bass and treble controls

Frequency response: 50Hz to 20kHz • One-year warranty Size: 3.3"W x 4.4"D x 8.6"H

· Weight: 4.2 lbs.

Part No. Description
132134 Ampl. multimedia speakers... \$35.95

10 Watt Micro Multimedia Speakers for 5.25" Bay · 10 watt built in power amplifier

- Adjustable angle 15 degrees right or left
- Front panel volume control and headphone jack

· Includes mounting bracket and power cable to sound card

Runs only on PC systems with sound card or MPC (not included) • Weight: 0.7 lbs. • One-year warranty

Description 132054 Multimedia micro speakers .. \$29.95

240W Surround Subwoofer System

Amplifier output power: 10W RMS

- Includes sound card, connector cable and power adaptor
- Weight: 11.1 lbs. · One-year warranty
- Satellite Speakers

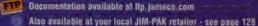


- · Power, volume, bass, and surround sound switches Front headphone and microphone pass-through jacks
- Dimensions: 4.5"W x 5.0"D x 9.8"H

Subwoofer • Dimensions: 6.5"W x 8.5"D x 10.0"H Part No. Description Price \$39.95 141399 Surround subwoofer system .. \$69.95

\$1.39 Sale price good at this quantity only **AMECO** Sale price to the right of banner good for that quantity, or less

\$74.95





118957

IBM 360KB & TEAC 1.2MB 5.25" Internal Floppy Disk Drives

 PC/XT/AT compatible Size: 5.8"W x 8.1"D x 1.6"H

· Teac: double-sided. high density, gray faceplate

· Weight: 2.2 lbs. One-vear warrantv IBM: double-sided.

17101 FD55G

double density, beige faceplate . Weight: 2.4 lbs. Part No. Product No. Manufacturer 1-4\$39.95 \$35.95 126957 6450207 IBM (360KB).

17101

TEAC 1.44MB 3.5" Internal **Floppy Disk Drive** PC/XT/AT and compatibles

Teac (1.2MB)

..59.95 54.95

Compatible with DOS versions 3.3 or higher Compatible with 19617 and 19668 interface cards (see above right)

Automatically determines if disk is high or low density

Formatted high density mode

Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)

Weight: 1.3 lbs.
 One-year warranty

Part No. Product No. Manufacturer Teac (1.44MB)\$54.95 \$49.95 115490 FD235

Drive Mounting Kit For mounting a 3.5" floppy drive into a 5.25" slot

 Includes beige faceplate (AT gray) Compatible with Teac drive (P/N 115490 – above)

· Weight: 0.3 lbs. Part No. Description 32088 Drive mounting kit......\$7.95

JAMECO Half-Height Bezel

· Bezel fills the empty space left when mounting half-height disk drives in full height bays

· Color: black

 Size: 5.9"W x 0.3"D x 1.7"H • Weight: 0.05 lbs. Part No. Product No. Description

Half-height bezel .. Closeout **11295** BEZEL

5.25" to 3.5" Floppy Drive Adapter Enables you to use a 5.25 floppy drive data cable

with a 3.5" floppy drive Connectors: 34-pin card-edge connector; 3.5" drive

connector: female 34-pin; 0.1" pin spacing Weight: 0.01 lbs.

Part No. Description 10-49 **100773** Floppy drive adapter......**\$1.95** \$1.25

Jameco IDE CD-ROM Card

The inexpensive solution when upgrading with multimedia!

 Uses popular and addresses for CD-ROM configuration

unique IRQs and I/O Primary I/O address 1F0, secondary, tertiary and quat. addresses

require driver software (not included) IRQs: 10, 12, 14, 15 • Includes cable and instructions

 One-year warranty · Weight: 0.5 lbs. Part No. Description 133188 IDE CD-ROM card......\$19.95 \$17.95

EPSON & Canon Combination 3.5" and 5.25" Floppy Disk Drives

1.44MB 3.5" disk drive and 1.2MB 5.25" disk drive combined in one unit

PC/XT/AT and compatibles

Fits in a 5.25 half-height drive bay



Compatible with DOS version 3.3 or higher

Automatically determines if disk is high or low density

Compatible with P/N 19617 and P/N 19668 (right)

· Color (faceplate): beige

• Size: 5.8"W x 8.0"D x 1.1"H • One-year warranty

Part No. Product No. Mfg. Wt. (lbs.) Epson 2.4 \$119.95 \$107.95 Canon 2.6...... SALE 115810 MD7511

Panasonic 1.2MB 5.25" & SONY 1.44MB 3.5" Internal Disk Drives

118957 Specifications:

PC/XT/AT compatible 1.2MB, 5.25"

double-sided. high-density · Color (faceplate): beige

Size: 5.8"W x 8.1"D x 1.6"H

VALUE · Weight: 2.3 lbs.

118922 Specifications:

• PC/XT/AT compatible • Color (faceplate): beige

. 1.44MB, 3.5", double-sided, high density Size: 4.0"W x 5.9"D x 1.0"H
 Weight: 1.4 lbs.

Part No. Product No. Manufacturer Panasonic (1.2MB) Clos \$39.95 118957 JU475 118922 JU257 Sony (1.44MB)49.95

Disk Drive & Computer Cleaning Kits

15430 Includes:

 (1) disk-care diskette & (1) 18 ml. bottle of disk drive head cleaning fluid . Wt.: 0.1 lbs.

134527 Includes: · 3.5" head cleaning diskette, (1) bottle head cleaning fluid. CD-ROM drive laser lens

cleaner, (1) bottle computer/CD cleaning solution (20) anti-static wipes, (5) anti-static cleaning pads,

(5) reusable swabs, (1) CD cleaning cloth Vacuum with accessories, tweezers, zipper case

Size: 11.5"L x 6.2"W x 1.9"H
 Weight: 1.2 lbs.

Part No. Description 1-9 10-24 15430 3.5" disk drive cleaning kit.......\$2.95 \$1.95 134527 Multimedia cleaning kit......19.95 17.95

JAMECO Disk Drive Mounting Rail

AT and compatibles

· Includes all necessary mounting hardware

8 mounting holes
 Weight: 0.04 lbs.

Part No. Description 1-9 10-49 50+ Mounting rail.....\$1.95 \$1.49

IAMECO CD-ROM Cables

• 2 x 28 AWG

· Weight: 0.1 lbs.

• P/N 127546 compatible with most CD-ROMs



Length 1-9

Part No. Made For 10-24\$4.95 \$4.49 Sony 127546 136928 Panasonic 136936 Mitsumi

JAMECO Floppy Disk Drive **Controller Cards**

• 360KB, 720KB, 1.2MB, 1.44MB

 PC/XT/AT/386 and compatibles

19617 allows connection of one or two 360KB, 720KB. 1.2MB or 1.44MB floppy disk drives

19617 19668 allows connection of up to four 360KB, 720KB,

1.2MB or 1.44MB floppy disk drives Both units include cable for two internal

disk drives and manual Cannot be used in conjunction

with another floppy card

· Weight: 0.8 lbs. One-year warranty

Part No. Product No. Description 19617 JE1043 2-drive controller ... SALE \$24.95 4-drive controller Clos 19668 JE1049

IAMECO Floppy Disk Drive **Controller Card**

Controls four floppy drives

 PC/XT and compatibles Runs up to four 360KB

or 720KB (floppy drive 3 and 4 requires DOS Driver Sys)

· Includes cable for two internal drives

· Complete with manual

Weight: 0.8 lbs.

· One-year warranty

Part No. Description

19596 Floppy controller card \$9.95

3.5" Diskette Storage Box

· Weight: 4.2 lbs.

One-vear warranty

Part No. Product No. Capacity 132151 AR4569

1-9 10-24 240.... SALE \$17.95

Auto CD Cleaner

The battery operated cleaner will remove fingerprints, dust and static attracting debris in 30 seconds.

 Operates on two AA batteries (not included)

Size: 7.0"L x 5.0"W x 2.0"H

Weight: 0.6 lbs.
 One-year warranty

10-24 Part No. Description \$13.49 132257

CD-ROM Accessories





76591

• 76591: for caddy-mount CD-ROM drives 132265: plastic case holds up to 3 CDs

· One-year warranty

10-24 Part No. Description Weight (lbs.) 76591 CD caddy 0.2.....\$7.95 \$6.95 0.3.....1.95 1.49 CD jewel case



110 Hard Drives, Controller Card, Software and Tape Drives

· Requires host IDE/SCSI adapter · Drives over 528MB require EIDE controller or DrivePro software (P/N 144910 - below)

Check out our external mass storage cabinets on page 112!



. TPI (Track Density): 1150

	Part No.	Product No.	Mig.	Capacity	Description	Weight	Speed	Warranty	Price
	119095	ST9144AG	Seagate	120MB	2.5" IDE for portable	0.4 lbs.	14 ms	3 mosSAL	\$109.95
	137306	ST9546AG	Seagate	540MB	2.5" IDE for portable	2.0 lbs.	14 ms	3 mos SAL	189.95
	113751	CFS210A	Conner	210MB	3.5" IDE	1.6 lbs.	14 ms	3 mos	129.95
	115764	WD1425A	West. Dig.	426MB	3.5" IDE	1.7 lbs.	12.5 ms	3 mos	149.95
	125701	ST3630A	Seagate	635MB	3.5" IDE	1.1 lbs.	14 ms	3 mos	159.95
	118949	ST3850A	Seagate	850MB	3.5" IDE	1.7 lbs.	14 ms	1 year	169.95
	124978	ST31275	Seagate	1.27GB	3.5" IDE	1.1 lbs.	14 ms	1 year	179.95
2000	146325	ST31720	Seagate	1.7GB	3.5" IDE (Fast ATA-2)	1.1 lbs.	12 ms	1 year	189.95
	146333	ST52520A	Seagate	2.5GB	3.5" IDE (Fast ATA-2)	1.2 lbs.	11 ms	1 year	219.95
	Part No.	Product No.		Description	on	Weight	2	1.	-4 5-9
	117217	HDMK		3.5" hard	drive mounting kit	0.6 lbs.	*************	\$9.9	5 \$8.95
AND PAR	122930	HDMK-2		2.5" hard	drive mounting kit*	0.2 lbs.	***********	SAL	7.95

Hard Disk Technical Guide

MICRO This 11th edition HOUSE includes complete setup specifications and procedures for the industry's most common hard drives and controllers, and how to match them with BIOS drive tables and all

The bonus CD-ROM includes
MicroHouse's EZ-Drive, a 60-second IDE hard

drive installation utility plus other handy utilities and demo software.

- · Up-to-date coverage on IDE drives
- . Enhanced IDE and FAST ATA coverage
- · Glossary of terms · Directory of Manufacturers
- Bonus CD-ROM · Weight: 1.4 lbs. Part No. Description Hard Disk Guide\$49.95 126308 \$44.95

DrivePro Software

MICRO Want to install a new HOUSE hard drive? Edit an existing one? What

about protecting your data? Drive Pro lets you do it all with just one integrated program. Fast, reliable and complete program used by professionals to install hard drives, recover data, diagnostics, and data repair.



System Requirements:

MS-DOS / PC-DOS version 3.0 and higher; 286 or better PC ISA compatible system; one or more IDE hard drives; at least 512K of system memory

- · Fast and easy set-up gets any size IDE hard drive data-ready in under 60 seconds
- · Supports up to four drives in one system
- · Technical specifications in most IDE hard drives from 1984 to present
- · Formats hard drives 20 times faster than DOS formatting · EZ-SMART (Self Monitoring Analysis and Reporting
- Technology) monitors hard drive condition and provides early warning hard drive failure (new feature)
- · EZ-COPY allows set-up and cloning of an entire drive · PARTITION-COPY moves partitions within or across
- drives (new feature) · Runs complete drive diagnostics and performance check routines . Includes 3.5" disks
- Size: 9.0"L x 7.0"W x 1.8"H
 Weight: 2.5 lbs.

44910	DrivePro	Software	\$69	95	\$62.95	1
		-		-		

Technical Library CD-ROM

MICRO Tech support at your HOUSE ingeruparements: fingertips! System MS Windows® 3.1 or OS/2 2.1, 386-SX CPU or better, 4MB of RAM, 2MB available disk space, CD-ROM drive, VGA graphics.

· Encyclopedia of main boards. hard drives and peripheral cards

· Network interface technical guide

 Size: 9.3"L x 8.0"W x 2.0"H · Weight: 1.4 lbs.

Part No. Description Tech. Library CD-ROM....\$329.95 \$299.95

ImageCast™ Software NEW

MICRO Having a hard HOUSE time setting up and configuring

hard drives? Too time consuming? ImageCast™ is the solution to these problems. With this software you can duplicate complete hard drive setups including operating systems,

configuration settings and application suitesto multiple PCs over a LAN in a matter of minutes. Fast, reliable and powerful—it's easier than ever.

· Image file compression with user configurable compression ratios included

- · Complete reporting feature
- Can operate in batch mode
- True multi-casting reduces network traffic
- · Image management functions lets you schedule image downloads and define groups of clients
- Supports FAT16, FAT32, OSR2 (Win95), NTDS, NetWare and Unix partitions
- System requirements for controller: Windows® 95 (8MB of RAM) or Windows® NT 3.5.1 or higher (16MB of RAM), sufficient hard drive to hold disk images
- System requirements for clients: 386SX-16MHz with 4MB of RAM and floppy drive, active DOS network connection, DOS 5.0 or higher
- · Weight: 0.7 lbs.

Part No.	Description	Pric
145592	ImageCast™ Software	\$99.9

BACKER by Danmere

Back-up your Hard Disk to VHS video tape!

The BACKER internal interface card allows you to backup 1.5GB to a standard video tape through your VCR.

 Transfers data up to 9MB per minute

Installs on 386 or higher CPU

 Runs with Windows® 3.1. 3.11 or Windows® 95 Runs in background allowing user access

to other Windows® applications Includes complete instructions, phono cables,

and user friendly software on a 3.5" utility disk Weight: 0.6 lbs.
 One-year warranty

Part No. Description 137445 HD to VHS back-up system....\$69.95

Quicktech Lite Diagnostic Software Self-booting software for 286, 386, 486

and Pentium® systems

 Verify proper operation and troubleshoot failures of all major PC components: hard drives (MFM, RLL, IDE, SCSI); floppy drives; base, extended and external cache RAM;



VGA/EGA/VESA - compliant video cards; keyboard; monitor; printer; and I/O ports

See page 97 for complete specifications

Part No. Description 134826 QuickTech Lite Diagnostic...... SALE

Jameco SCSI Cables



· For PC/XT/AT and compatibles · All lines connected † Also Macintosh® compatibles

Part No. Description 50-pin SCSI socket ribbon cable † (18") \$3.95 \$3.49 137550 68-pin SCSI-III internal ribbon cable (27").....

Male 50-pin SCSI Centr. to male 50-pin SCSI Centr. † (6')9.95 118084 Male 50-pin SCSI Centr. to

male HPDB50 SCSI-II cable (6') 24.95 118914 Male HPDB50 SCSI-II to male HPDB50 SCSI-II (3') .19.95 17.95

118076 Male HPDB50 SCSI-II to male HPDB50 SCSI-II (6')......24.95 22.49

137216 Male Centr. mini 68 SCSI-III to male Centr. mini 68 SCSI-III (3') 29.95

137226 Male HPDB68-pin SCSI-III to male HPDB68-pin SCSI-III (3') 29.95 26.95

137568 Male HPDB68-pin SCSI-III to male HPDB50-pin SCSI-II (3')

137576 Male HPDB68-pin SCSI-III to male 50-pin Centr. SCSI-I (3') .. 39.95 35.95

Hot-Swappable Removable Rack

These racks are hot-swappable through the keylock switch. Avoid down time while adding or removing drives! Lock and you power up; there is no



power contact until you lock the rack.

Part No. Description 134068 IDE hot swappable rack.

\$69.95



Part No. Description

\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less.



Documentation available at fip.jameco.com Also available at your local JIM-PAK retailer - see page 128

Jameco Plug & Play PCI-Bus **SCSI-II Controller Card**

- PCI plug and play
- Powerful advanced setup function
- Scatter/gather operation support
- Synchronous transfer rate up to 10MB/s for fast SCSI
- Asynchronous transfer rate up to 5MB/s
- . 50-pin SCSI-II internal and 50-pin SCSI-II external connector • One-year warranty
- Includes manual, ribbon cable and software
- Size: 4.8"L x 3.4"W · Weight: 0.7 lbs.

Part No.	Description	Price
138608	PNP PCI SCSI-II contr. card	\$89.95

Jameco ISA Fast SCSI-II **Controller Card**

- Compatible with DOS. Windows® Windows® NT, UNIX, **UNIX Netware**
- Supports full complement of SCSI driver software
- 32 byte hardware stack
- 128 byte host data buffer and 8 byte SCSI data buffer
- · Synchronous transfer rate up to 10MB/s
- · Asynchronous transfer rate up to 5MB/s
- · Includes setting sheet, three ribbon cables and software (3.5" disk) • Size: 6.3"L x 4.0"W
- · One-year warranty Weight: 1.0 lb.

Part No.	Description	Price
138616	ISA SCSI-II controller card SALE	\$69.95

Jameco ISA Enhanced IDE I/O Controller Card Supports 4 EIDE and 2 floppy drives

 Compatible with DOS 6.2. Windows® 3.1, Windows® OS-II 2.X and



- Intelligent BIOS automatic setup
- 4 hard drives/2 floppy drives
 Two parallel ports
- ACC3223 on board chip set with 2 FIFO high speed UART • 2 EPP/ECP bi-directional
- Includes manual and cables One-year warranty
- Size: 6.5"L x 4.0"W

Part No.	Description	1-4	5-9
138624	ISA-EIDE controller card	\$79.95	\$71.95

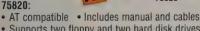
Jameco MFM/RLL **Hard Disk Drive Controllers**

- · Weight: 0.7 lbs.
- · One-year warranty (106761 & 75820 only)

106761/112088:

- XT compatible
- · Supports two hard disk drives; cables not included





 Suppor 	rts two floppy and two nard disk drives	
Part No.	Description 1-4	5-9
112088	RLL 8-bit HD controller Closeout	\$4.95
106761	MFM 8-bit HD controller Closeout	29.95
75820	MEM 16-bit HD/FD controller 49 95	44 95

Gadapted VESA Bus to Fast SCSI-II Controller Card



- For system with VESA local bus slots
- 32-bit bus master DMA up to 10MB/sec.
- Supports up to seven SCSI devices
- SCSI select BIOS utility eliminates jumper setting
- · Advanced SCSI programming interface
- Supports multitasking multithreaded I/O
- Synchronous and asynchronous data transfer
- · Scatter/gather, tagged gueing and disconnect/reconnect
- Compatible with DOS/Windows®, Windows® NT, OS/2, Netware, SCO UNIXWare
- Recommend internal connector: 50-pin flat cable P/N 72848, pg 126) - not included
- Recommend external connector: 50-pin HD SCSI-II cable (P/N 118914, pg 126) - not included
- · Weight: 0.5 lbs.

Part No. De			
131924 VL	B fast SCSI-II cont. ca	rd SALE	\$39.95

Jameco ISA Enhanced IDE Card

Supports 4 IDE including CD-ROMs/ tape drives and 2 floppy drives

This card is the only ISA IDE card currently available



DMA transfer hardware (up to 8.33MB/sec.).

- . ROM BIOS will auto-configure the IDE hard drive parameters with any set-up feature
- · Includes cables and manual
- · Weight: 0.7 lbs. · One-year warranty

Part No.	Description	1-4	5-9
127386	Enhanced IDE/floppy contr	SALE	\$69.95

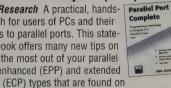
Jameco IDE CD-ROM Card

The inexpensive solution when upgrading with multimedia!

- · Uses popular and unique IRQs and I/O addresses for CD-
 - ROM configuration
- Primary I/O address 1F0, secondary, tertiary and quat. addresses require driver software (not included)
- IRQs: 10, 12, 14, 15 Includes cable and instructions
- · One-year warranty · Weight: 0.5 lbs. Part No. Description
- 5-9 133188 IDE CD-ROM card.....\$19.95 \$17.95

Parallel Port Complete (1996)

Lakeview Research A practical, handson approach for users of PCs and their connections to parallel ports. This stateof-the-art book offers many new tips on how to get the most out of your parallel port. New enhanced (EPP) and extended capabilities (ECP) types that are found on most new systems are covered. (343 pages)



- Windows® 3.1 and Windows® 95
 PC to PC links
- How to select cables Includes 3.5" software disk • Weight: 1.4 lbs • Size: 7.0" x 10.0"

Part No.		Description	1-4	5-
	138261	Parallel Port Complete w/ SW	\$39.95	\$35.9

Jameco ISA/IDE Super 16-Bit I/O Plus Cards

Supports 2 IDE and 2 floppy drives

- · Parallel printer port (P/N 131318 is bi-directional)
- · Game port
- Two RS232 serial ports
- 131318 UART emulation: 67061 - 16450: 131318 - 16550
- · Includes manual and cables
- Weight: 0.9 lbs. One-year warranty

Part No.	Description	1-4	5-9
67061	16450 UART I/O card	\$29.95	\$19.95
131318	16550 UART I/O card	39.95	35.95

Jameco VESA/IDE Super I/O Card

Supports 2 IDE, 2 floppy drives. 2 serial, parallel, game port



- · For use only with AT and compatibles with VESA local bus
- Supports up to two IDE hard disk drives Supports up to two floppy disk drives:
- 1.44 MB, 1.2 MB, 720KB and 360KB densities
- Game port and parallel port 16450 UART emulation
- Dual serial communication ports: COM1, COM3 and COM2, COM4
- · Cables, spec sheet and driver diskette included
- Weight: 0.8 lbs.
 One-year warranty

Part No. Product No. Description 105072 DC75VLB Super I/O card\$24.95 \$22.49

Jameco IDE Disk Drive Adapter Controller Cards

Standard Features:

- · Interfaces two IDE hard drives to system
- Includes cable(s) and operating manual
- One-year warranty (P/N 109049 -90-day warranty)

10250 Features:

- · 16-bit IDE hard disk and floppy disk interface
- Works with any combination 360KB, 720KB, 1.2MB and 1.44MB
- Operates up to two floppy disk and two hard disk drives

. 16-bit IDE hard disk interface

- Can operate as a secondary hard disk controller
- On board BIOS to self configure drive
- BIOS address relocatable

10284 Features:

- 16-bit IDE hard disk and floppy disk interface · Supports two floppy and two hard disk drives
- Can operate as a secondary hard disk controller
- · Floppy controller can be disabled
- BIOS address relocatable

	Part No.	Description	weight (lbs.)	1-4	D-5
	109049	16-bit HD adapter	0.4 Clo	seout	\$3.95
	10250	16-bit HD/FD adapt	er 0.51	9.95	17.95
	10268	8-bit HD adapter			
		w/ BIOS	0.5	SALE	49.95
	10276	16-bit HD adapter			
		w/ BIOS	0.5	SALE	26.95
)	10284	16-bit HD/FD adapt			
ı		w/ BIOS	0.7 Cla	seout	39.95

OEM Pricing Available!

75820

112 JAMECO Computer Cases and Accessories

Jameco Vertical Computer Enclosures with Power Supply 94 @ A CE · Back panel supports seven expansion slots · Slide-off side panel accesses roomy interior Includes power cord and 8Ω/5W speaker · Assorted attachment screws 230V/115V switch One-year warranty 138798: Mid Tower · Front panel will hold CD-ROM two hard drives and two 3.5" drives 250W UL/CSA/CE approved power supply Size: 8.5"W x 17.8"D x 17.3"H Weight: 22.5 lbs. through slide-off 140038: Mid Tower · For ATX Pentium Pro® motherboards . Front panel will hold CD-ROM, two hard drives, two 3.5" drives · 250W UL/CSA/CE approved power supply for ATX connection Size: 8.6"W x 17.8"D x 17.3"H Weight: 23.0 lbs. 138801: Full Tower · Front panel has six full bays and two 3.5" bays Attachable base for added support (some assembly required) 300W UL/ CSA/TUV approved power supply 138801 • Size: 7.5"W x 17.3"D x 24.3"H • Weight: 33.3 lbs.

Jameco Mini-Vertical Case with 250 Watt Power Supply

Mid tower case with 250W power supply

Full tower case with 300W power supply ...

· Fits all size baby motherboards · Back panel with

8 expansion slots · Power, turbo, hard disk indicator and CPU speed display

 (5) drive bays, (4) exposed: (2) 3.5" drive bays,

Part No. Description

(2) 5.25" drive bays, (1) 3.5" hard drive bay

· Switches for turbo and reset

· Speaker and hardware included · 250W UL/CSA approved

power supply

• Size: 7.0"W x 16.0"D x 13.0"H • Weight: 13.6 lbs. Color: beige • One-year warranty

Part Product

Description 20546 JE2032 Case w/ pwr. supply ... \$69.95

Jameco Multimedia Case with Built-In Speakers



Two external 5.25" and one 3.5" drive slots

· Eight card slots

· Front panel mounted switches for power, turbo, reset plus volume, tone and balance control

· Front panel bar graph display

· 230W UL/CSA approved power supply

• Size: 16.0"L x 15.0"W x 7.0"H

Weight: 23.4 lbs.
 One-year warranty

Part No. Description Price 123035 Mult. case w/ pwr. sup. \$99.95 Jameco PC/XT Compatible **Desktop Computer Case** VALUE

· Four half-height 5.25" drive bays, two exposed · Back panel

with 8 expansion slots, two

DB25 openings and power supply mount Speaker and hardware included • Color: beige

 Recommend P/N 19465 or 67467 power supply (pg 99) • Fits all XT motherboards

• Size: 19.5"W x 16.3"D x 5.9"H • Weight: 17.0 lbs. Product

Description JE2021 Desktop slide case. \$19.95

Jameco Vertical Case with 300 Watt **Power Supply**

 Back panel with 8 expansion slots · Six half-height drive bays;

four exposed

300W UL/CSA approved power supply

 Size: 7.0"W x 16.0"D x 25.5"H · Weight: 34.8 lbs.

· Color: beige

Part

· One-year warranty

Product Description

65648 JE2030A Case w/ pwr. supply \$159.95 External SCSI-I Dual **Drive Enclosure**

 50W UL/CSA/TUV approved power supply

· AC-outlet socket

. 5.25" full height with accessible bay · Two SCSI devices

· For HD drive and optical drive

Part No. Size (L" x W" x H") Wt. (lbs.) 1-4 125031 11.4 x 9.0 x 4.3 \$89.95 \$79.95 **Jameco Computer Brackets**



Fits standard PC/XT/AT cases
 Length: 4.75"

For securing cards into bus slots

Can be used to expand card I/O

See pg 47 for DB connectors • Weight: 0.04 lbs. 1.0" top end to first tab (center hole) -

2.5" tab to tab (center hole)

** 1.02" top end to first hole - 1.9" hole to hole

Part No.	Description	1-9	10-99	100
11754	Blank back panel bracket		\$1.25	\$.99
139424*	Blank back panel w/ board mt.	1.49	1.25	.99
101717	For DE9 connector	1.49	1.25	.99
101733	For DB25 connector	1.49	1.25	.99
140767**	For DB25 connector		losecut	.75
101741	For DC37 connector	1.49	1.25	.79
109946	For 2 DE9 connectors,			
	2 round holes	1.49	1.25	.99
114147	For 2 DE9 connectors,			
	DIP switch between		leseout	.25
101830	For DE9 and DB25 conn	1.49	1.25	.99
101709	For DA15 and DB25 conn	1.49	1.25	.79

Replacement Switches **For Computer Cases**

For Jameco and most other cases PC Rocker Switch

\$109.95

116.95

179.95

· For minitower cases

 DPST • 250V @ 10A · UL/CSA approved

Size: 0.9"L x 1.2"W x 1.4"D

Part No. Product No. Description

127028 SW100 PC rocker switch .. \$2.49 PC Toggle Switch

· For many desktop and

large tower cases DPST • 250V @ 10A

UL/CSA/VDE approved

Size: 1.2"L x 0.7"W x 1.1"D

Part No. Product No. Description 127036 SW101

PC toggle switch. PC Push Button Switch

· Alternate action switch (DP) • 250V @ 7.5A

UL/CSA/VDE approved

Size: 0.9"L x 0.7"W x 0.9"D

Part No. Product No. Description **127044** SW102

PC push button sw. \$2.49 \$1.95

Jameco Computer Stand

· Holds computer vertically to conserve space Adjustable size
 Color: beige

External size: 12.0"L x 8.0"W x 3.6"H

· Weight: 1.0 lb. Part No. Product No. Description

20191 JE1197 Computer stand.

\$1.95

Price

\$1.95

Recycled from overruns of computer circuit boards destined for the land-fill, TecNotes are very sturdy and

TecNotes Clipboard

colorful. The clipboard is 9" x 13" and will dazzle any boardroom. Made in USA

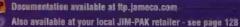
· Contains no solder or lead; color varies. Part No. Description Wt. (lbs.)

93711 Clipboard SALE \$11.49



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less





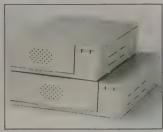
Compact Series – External Cases

For HD, DAT, MO, CD-ROM

 SCSI interface Removable

drive bracket for easy installation

 Multiple front panels to fit different types of storage devices



129728/129736 · Built-in 50 watt power supply (UL/CSA/TUV approved) and fan

Meets FCC requirements

Drive space 1 x half height 5.25" or 3.5"

· Comes with necessary ID cables for all types of drives

· SCSI-ID address selector on SCSI models

One-vear warrantv

129728:

Size: 6.5"W x 9.8"D x 2.4"H
 Weight: 3.5 lbs.

129736:

Size: 8.3"W x 10.5"D x 2.3"H
 Weight: 4.2 lbs.

Part No.	Description 1-4	5-9
129728	SCSI, 3.5" ext. case\$79.95	\$71.95
129736	SCSI, 5.25" ext. case79.95	71.95

Elegant Series – Drive Enclosures For HD, DAT, MO, CD-ROM

2 Built-in fans to cool off high speed drives



 New generation of SCSI enclosures with 50 watt universal (90~264V) power supply

· Swing-out foot pads for better vertical stability

· SCSI-ID address selector

 Multiple front panels to fit different types of storage devices • Drive space 1 x half height 5.25" or 3.5"

· Comes with necessary ID cables for all types of drives Removable drive bracket for easy installation

Size: 6.5"W x 9.7"D x 2.4"H

· Weight: 3.6 lbs. · One-year warranty

Part No.	Description	1-4	5-9
129744	SCSI 3.5" ext.	case\$89.95	\$80.95

Jameco External CD-ROM Cases

· SCSI or IDE interface

Streamlined

appearance Metal body with plastic

front panel RCA jack

SCSI-ID

address selector on SCSI model (for CD1)

25 watt universal switching power supply

Size: 6.5"W x 11.8"D x 2.0"H

Weight: 3.8 lbs.
 P/N 129710: One-year warranty

129710

Use cable (P/N 73162, pg 126) for connections

Part No.	Description 1-4	5-9
126391	SCSI CD-ROM ext. case\$54.95	\$49.95
129710	IDE CD-ROM ext. case89.95	80.95

Removable Racks and Inserts

 Removable storage for 3.5" IDE or SCSI I/II hard drives Air-vents



Power LEDs

129816 Keylock for security
 One-year warranty

129816: • Size: 5.8"W x 8.5"D x 1.5"H • Weight: 1.2 lbs. 129824: • Size: 5.8"W x 8.3"D x 1.5"H • Weight: 1.2 lbs.

Inserts Enclosures for Removable Racks

 Includes inner cable with IDE or SCSI-I connector • Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.9 lbs.

Ollo yo	ar warranty	
Part No.	Description 1-4	5-9
129816	Rack, IDE hard drives	\$35.95
129824	Rack, SCSI I/II hard drives29.95	24.95
135861	Removable inserts – IDE19.95	17.95
135853	Removable inserts – SCSI19.95	17.95

Hot-Swappable Removable Racks

These racks are hot-swap pable through the keylock switch. Avoid down time while adding or removing drives! Lock



122948

Compatible with Windows '95!

and you power up; there is no power contact until you lock the rack.

• Air vents • Power LEDs • Keylock for security

SCSI racks have fans – 12VDC @ 0.9 watts

• With cooling fan: P/N 134076

· One-year warranty

Excellent

for Travel!

134068: Size: 8.8"L x 5.8"W x 1.7"H Weight: 1.4 lbs. **134076:** Size: 8.8"L x 5.6"W x 1.7"H Weight: 1.4 lbs. Part No. Description 1-4 134068 IDE hot swappable rack..... SALE 134076 SCSI I/II hot swappable rack..79.95 71.95

ATEN® Portable 2.5" and 3.5" External Hard Drive Enclosures

These attractive 2.5" and 3.5" external IDE drive enclosures will give you the spare drive you need for extra storage anywhere! They are ideal for disk backup, multimedia, data protection, file transport, testing and software installation.

Use on any computer with a parallel port
 Use with IDE drives

 Allows hard drive to be set up to a parallel port at the same time and is transparent to the user

Compatible with DOS and Windows[®]

Includes cable, manual and attractive carrying case

Enters power save mode after 20 minutes idle time

· One-year warranty

122948: 2.5" External HD Enclosure

· Write protection and switch selectable

· Uses keyboard adapter for power

129699: 3.5" External HD Enclosure

Includes 19VAC external newer adapt

IIIoiddos	12 Vito external power adapter				
Part No.	Description	Size (L" x W" x H")	Wt. (lbs.)	1-4	5-9
122948	2.5" external hard drive enclosure	7.3 x 6.0 x 2.0	1.2	\$79.95	\$71.95
129699	3.5" external hard drive enclosure	8.8 x 5.3 x 1.5	4.5	89.95	\$80.95



Multiple-Drive External Subsystem Enclosures

For Multiple HDs, Network CD-Servers, RAIDs

· Zinc plated metal body with streamlined plastic front panel · Internal SCSI cables with ID address selectors

· High quality internal Centronics or SCSI-II cables; optional SCSI-III also available · One-year warranty

- call for pricing and availability

129761/137509: 5.25" Full Height or 2-Half Height Bays · Two SCSI-ID address selector

· 80W switching power supply with UL/CSA/TUV approval

• Size: 7.

· Weight:

129779/1

200W s

• Size: 7.

· Weight:

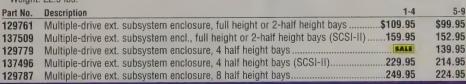
129787:

• 250W s

Size: 7.

Weight:

Description			1-4	5-9
: 22.9 lbs.	129787	129779	129761	
.0"W x 15.6"D x 17.0"H				
switching power supply with UL/CSA/TUV approval	3			
5.25" 8-Half Height Bays		1211	and the same of th	
: 15.0 lbs.		****	Mariemannia (1)	
0"W x 14.1"D x 10.3"H		sinin		
switching power supply with UL/CSA/TUV approval		Hills		
137496: 5.25" 4-Half Height Bays			(not include	
: 8.7 lbs.			shown with removable ra	
.1"W x 11.3"D x 6.5"H			P/N 12976	





JAMECO & SL WIBER Power Products

Oth Pricing

SL WABER Power Products

6 Outlet Wall Plug-in

- · Electrical rating: 15 amp, 120VAC, 60Hz UL 1449 suppressed
- voltage rating: 400V · Protection devices:
- metal oxide varistors
- · Clamping response time: <5nsec.
- . EMI/RFI noise rejection: up to 15dB
- Indicator light shows surge protection is working
- · Easily installs into wall outlet · Color: beige
- Size: 4.8"L x 3.3"W x 1.3"H Weight: 0.4 lbs.

Part Number	Product Number	Description	1-9	10-49
99291	EP6	Wall plug-in	\$4.95	\$3.95

SurgeSentry® 6 Outlet

- · Ultimate 3-stage protection
- · 62,525 amp spike suppression; 880 joules
- Clamping response time: 1psec.
- · 330V clamping voltage
- · Audible alarm
- · EMI/RFI noise reduction
- 3-line protection 6' cord
- Size: 6.5"L x 4.3"W x 2.5"H
- · Weight: 1.7 lbs

Part No. Description 133090 6-outlet, suppress 62,525 amp \$24.95 \$22.49

DataGard® 7 Outlet

- Standard 1-stage protection • 13,000 amp
- spike suppression; 520 joules · Clamping response time: 1nsec.
- · Audible alarm · 330V clamping voltage
- EMI/RFI noise reduction
 3-line protection
- . 6' cord with right angle connector
- Size: 15.5"L x 2.3"W x 1.4"H Weight: 1.4 lbs.

Part No. Description 133081 7-outlet, suppress 13,000 amp \$14.95 \$11.95

4 IEC Outlet Power Strip

- Rating: 10A / 250VDC
- · 4 IEC 320 outlets, 1 IEC male inlet
- · 10 amp circuit breaker
- Compatible cords: P/N's 38050, 121291 (pg 57)
- Size: 8.8"L x 2.5"W x 1.8"H
- · Weight: 0.9 lbs

Part No. Description **144101** 4 IEC outlet power strip\$39.95 \$35.95

6' and 15' Floor Cordquards

3M Hook and Loop Fasteners Allows attachment to substrates with the convenience and ease of rubber adhesive. Offers high adhesive bond to a wide variety of materials and provides excellent moisture resistance.

• 5/8" wide • Color: black

Part No. Product No. Descripti

Fastene



	Price per yard				
on	1-9	10-49	50+		
rs	\$6.95	\$5.95	\$4.95		

143790 143781 134252 Cord Dia. | Up to .31" | Up to .31" | Up to .50 Color Beige Beige 6' Length 6' 15 19

				- 大学を
	Part No.	Description	1-9	10-49
	143790	6' black cordquard	\$6.95	\$5.95
	143781	6' beige cordquard	6.95	5.95
	134252	15' beige cordguard	29.95	24.95
•				

Powerhouse 500 Computer Back-up Power Supply

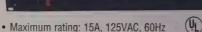
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FEITHFILL

- 500VAC/340W
- 6 outlets two full-time "surge only" protected receptacles, four full-time "uninterruptible power supply" receptacles
- RFI/EMI protected
- · Instant microprocessor back-up power to keep your system running during power outages
- · Recharge time: less than 2 hours
- Input voltage: 120VAC @ 12A, 60Hz
- LED/audible indicators One-year warranty
- Size: 11.8"L x 5.3"W x 7.0"H Weight: 13.9 lbs.

Part No. Description 134316 6-outlet backup supply. \$169.95

Rack Mount 6-Outlet Power Strip



- · 1875 watts continuous duty
- · Outlets: 30-duplexed "U" grounded
- · Master switch with amber pilot lite
- . 6' 14/3 SJT black molded plug
- · Circuit breaker protection
- Use with relay rack P/N 133751 (pg 122)
- Size: Front plate: 19.0"L x 1.7"W Back cover: 17.0"L x 1.7"W x 2.4"D Mounting centers: 18.3" x 1.3"
- Weight: 2.8 lbs.
 One-year warranty

Part No.	Description		1-4	5-9
134295	Rack power:	strip	\$49.95	\$44.95

10 Outlet Power Strip

- Rating: 15A/125VAC or 20A/125VAC
- · Surge protection and EMI/RFI filtering
- · Includes universal mounting clips
- Cord length: 6
- Size: 4.0"L x 2.0"W x 1.5"H
- · Weight: 4.0 lbs.

Offic y	our warranty	. OL/ OOM 0	thbioseg ==	
Part No.	Description		1-4	5-
144098	10 outlet pov	wer strip	\$59.95	\$53.9

Hospital Grade 6 Outlet Power Strip

- · Maximum rating: 15A, 125VAC, 65Hz, 1875 continuous duty
- · Power supply cord: 14/3 SJT hospital
- · Protection: circuit breaker, black color
- · Type III keyhole-slot flush mounting
- Size: 13.3"L x 2.4"W x 1.5"H
 Weight: 2.3 lbs.
- · One-year warranty · UL/CSA approved

Part No. Description 144119 6 outlet power strip...... .\$69.95 \$62.95 • Master

Jameco Six-Outlet Metal **Power Strip Surge Protector**



- . Built-in safety circuit breaker (15 amps)
- Maximum spike current: 4500 amps, 50 joules
- Three-prong, 4' power cord UL listed
- · Color: beige, metal housing
- Size: 12.3"L x 2.4"W x 1.3"H
 Weight: 1.5 lbs.

Part No. Product No. Description 1-9 20175 JE1191★ Power strip......\$8.95

IBM Easy Options Surge Protector

- · 6-outlets all protected
- · 2-RJ11/45 phone. fax or modem jacks
- · High speed fuse for catastrophic surge
- · EMI/RFI noise filtration
- · 200 volts clamping level
- UL 1449 surge protection listed to 400 volts
- . 7' RJ11 4-wire phone cord included
- · \$25,000 lifetime manufacturer's guarantee
- Size: 6.6"L x 4.0"W x 1.6"H Weight: 2.0 lbs.

Part No. Description 128602 6-outlet surge protector..... \$29.95

Jameco DB25 Surge Suppressors

Protects your sensitive line driver/receivers against damaging power surges caused by lightning, static and power surges.

· In-line adapter to protect serial devices

· Female DB25 to male DB25 adapter

Description

RS232 serial surge sup. .. 72371 112459

\$3.95 Parallel printer port sup. 🔀 Computer Energy Saver

112459

1-9

Preserves and protects your equipment by putting your printer and monitor in "sleep mode" after 5 minutes of inaction without loss of data.

· PC/XT/AT and compatibles

· Plug power cords from your printer and monitor into the unit and connect keyboard in series with DIN connector to computer and power from computer • UL and CUL listed

 Size: 2.6"L x 3.0"W Description Part No.

· Weight: 0.5 lbs. Price 127888 Monitor/printer saver ... \$6.95

Jameco Power Base

power switch and 5 auxiliary (15 amps) switches for each outlet



- Three-prong power cord
- Maximum spike current: 6,500 amps, 80 joules
- · Color: beige
- Size: 12.0"L x 12.8"W x 2.3"H
 Weight: 4.8 lbs.
- Part No. Product No. Description 20159 JE1190 Power base......\$19.95 \$17.95

\$1.39 Sale price good at this quantity only Documentation available at flp.jameco.com SALE Sale price to the right of banner good for that quantity, or less Also available at your local JIM-PAK retailer - see page 128



144291 SJ356/7

Tripp Lite isobar® Surge Suppressors



The world's best known. most advanced surge suppressor provides total protection against surges, spikes and line noise. Exclusive

isolated filter banks prevent interference between connected equipment. · Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry

139686

MADE

USA

 Multi-component circuitry suppresses up to 120,000 amp spikes with up to 1,500 joules • Instantaneous (0 ns) surge response time

 "Cascade Cicuitry" allows you to chose increased noise protection level for your most sensitive equipment

Protection in all three AC modes: hot to neutral.

hot to ground and neutral to ground • UL 1449 and 1283 listed IsoTel models have dual RJ11 jacks for complete modem/fax surge protection

Lifetime warranty
 Heavy duty, all-metal housing; made in USA

· 2-, 4-, and 6-outlet suppressors have 6' cord, 8- and 12-outlet suppressors have 12' cord

 Up to \$25,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!

Isobar	Premium	Surge	Suppressors

Part No.	Product No.	Joules	Description	Weight	Price		
74456	ISOBAR 2-6	600	2 outlet, 1 isolated filters	1.8 lbs.	\$34.95		
18981	ISOBAR 4	1050	4 outlet, 2 isolated filters	2.4 lbs.	44.95		
74544	ISOBAR 6	1200	6 outlet, 3 isolated filters	2.7 lbs.	54.95		
Isobar Ultra Premium Surge Suppressors							
136830	ISOBAR 4U	1050	4 outlet, 2 isolated filters	2.4 lbs.	SALE \$49.95		

ISOBAR 8U 1200 8 outlet, 4 isolated filters 3.5 lbs.69.95 Isotel AC/Phone Line Surge Suppressors

136848 ISOTEL 6U 1500 6 outlet, 3 isolated filters

Isobar Premium 19" Rackmount Surge Suppressors 2 outlet, 2 isolated filters 4.7 lbs. 139686 IBAR12

Tripp Lite OmniSmart PNP UPS Systems

Advanced microprocessor control of all on-board operations

· Solution includes UPS hardware, PowerAlert CD-ROM and complete cabling

19001

· Three levels of line interactive automatic voltage regulation

- · Network monitoring interface (DE9 port) supports SNMP and automatic unattended shutdown of any network operating system
- · Detailed self-test control feature
- · Model 850 features a UPS overload indicator LED

 Built-in protection against surges and spikes; RFI/EMI line noise filtering prevents interference from affecting your computer

· Several second restart delay prevents damage to computer due to after-blackout rolling surges

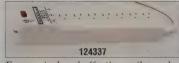
· Continuous battery charging, even during brownout conditions, maintains full battery charge and prolongs battery life

 Cold-start feature allows you to use the UPS as a stand-alone power source without AC connection

\$50,000 Ultimate Lifetime Insurance on connected equipment

Part No.	Product No.	Description	Agency	Weight	Price
142615	OMNISMART280PNP	280VA, 2 outlets	UL/CUL	13.3 lbs	\$149.95
142623	OMNISMART675PNP	675VA, 4 outlets	UL/CUL	20.2 lbs	249.95
142631	OMNISMART850PNP	850VA, 4 outlets	UL/CUL	27.0 lbs	349.95

Tripp Lite Standard Surge Suppressors





Economical and effective spike and noise suppression.

Super 7 suppresses 450 joules; \$5,000 Ultimate Life insurance

Super 8 suppresses 600 joules: \$10,000 Ultimate Life insurance

art No.	Product No.	Description	Weight Price	
24337 2045	Super 7 Super 8	7 outlets suppress 9,500 amp spikes 8 outlets suppress 48,000 amp spikes	1.6 lbs \$19.95 1.7 lbs 27.95	
		P		а

Tripp Lite Fax/Modem Protector

Protect fax machines, modems, data and telephone lines from surges and spikes.

 Two-year manufacturer's warranty · Weight: 0.3 lbs. · Cable included

Part No. Product No. Description

Modem/telephone protection..

Tripp Lite BC Personal and BC Pro UPS Systems

BC Personal models:

· Protect against blackouts.

Protect against blackouts, brownouts, surges and spikes

\$25,000 Ultimate Lifetime Insurance · Perfect for home office, small office applications

BC Pro models have all the features of the BC Personal models, plus:

· LAN port for unattended shutdown of any network operating system

Microprocessor controlled self-test function

· Built-in diagnostic



Diagnostic LEDs show UPS condition, load and battery charge status (U1) \$25,000 Ultimate Lifetime Insurance on connected equipment

φ25,000 Offinate Englished insurance on connected equipment						
Part No.	Product No.	Description	Agency	Weight	Price	
124206	BCPERS280	280VA, 2 outlets	UL/CSA	11.9 lbs	\$99.95	
124222	BCPRO450	450VA, 4 outlets	UL/CSA	15.1 lbs	179.95	
124231	BCPR0550	550VA, 4 outlets	UL/CSA	19.3 lbs. SAL	199.95	
124249	BCPRO675	675VA, 4 outlets	UL/CSA	20.1 lbs	249.95	
124273	BCPRO1400	1400VA, 6 outlets	UL/CSA	42.0 lbs. SAL	399.95	

Tripp Lite Line Conditioners

These line conditioners keep you working through brownouts and overvoltages.

· Automatically adjust incoming AC from 87 to 140 volts

· No batteries required

· Built-in surge suppression and noise filtering

UL listed

· Two-year manufacturer's warranty

P/N 139694: 19" rackmount with 12' cord

• Up to \$25,000 Ultimate Lifetime Insurance for connected equipment

24619 22787

Part No.	Product No.	Description	Agency	Weight	Price
24619	LS600	600 watts, 2 outlets		4.5 lbs	\$99.95
22744	LC1200	1200 watts, 4 outlets	UL/CSA	8.6 lbs	159.95
22787	LC1800	1800 watts, 6 outlets	UL	10.5 lbs	219.95
139694	LCR2400	2400 watts, 14 outlets	UL/CSA	26.2 lbs	399.95

Tripp Lite SmartPro Net Rackmount UPS Systems

Single-purchase solution includes intelligent UPS, PowerAlert Plus network

shutdown/monitoring software and complete cabling

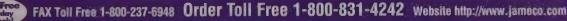
· Fits standard 19" equipment racks

· Automatic Voltage Regulation (AVR) under/overvoltage correction

 Long lasting battery backup power with complete surge and line noise protection

 \$50,000 Ultimate Lifetime Insurance covers all connected equipment Part No. Product No. Agency Weight Description





Parrallel Por Complete Book

Jameco Printer Card

2 Bi-directional Parallel Ports

- 286, 386, 486 and Pentium® systems (16-bit bus)
- Supports ECP/EPP/SPP
- · Select from IRQs: 3, 4, 5, 7, 9, 10, 11, 12, or 15
- Address selectable to LPT1-LPT6
- · Print mode jumper selectable
- · Weight: 0.6 lbs. One-year warranty

Part No.	Description	1-4	5-9
132214	2-port printer card\$39	9.95	\$36.95

Jameco Printer Card

1 Bi-directional Parallel Port

- · PC/XT/AT and compatibles
- · One port, non-expandable
- Jumper selectable for normal or bi-directional
- modes Configure to IRQ 5 or 7 Address selectable to LPT1-LPT6
- Weight: 0.3 lbs. One-year warranty

Part No.	Product No.	Description	1-4	5-9
129373	JE1160 ·	Printer card	\$19.95	\$17.95

Jameco Fast 16C650 16-Bit I/O Cards

P/N 136995: Two 16C650 Serial Ports P/N 137007: Four 16C650 Serial Ports

P/N 137015: Two 16C650 Serial Ports and one **EPP/ECP Bi-directional Parallel Port**

These unique cards feature the super fast 16C650 UARTs, 32 byte FIFO buffers and the latest technology to deliver a full range of IRO and COM selections.



137015

- · PC/XT/AT and compatible computers
- IRQs: 3, 4, 5, 6, 7, 9, 10, 11, 12, and 15
- · COM ports 1-8, ports can be disabled
- · Serial ports addressable to 3F8, 2F8, 3E8, 2E8, 250, 258, 260, 268
- · Jumpers for 1X, 2X, 4X clock throughputs (1X @ 1.84MHz)
- · 3.5" disk includes SETIO setup software which allows you to view IRQs and drivers for Windows® 3.X and Windows® 95
- Includes manuals and DB25 male cables with panel brackets for feature connectors where applicable
- · One-year warranty

P/N 136995:

• DE9 and DB25 male connectors • Weight: 0.5 lbs.

- Interrupt sharing for use in SCO, UNIX and XENIX
- Jumpers for AST, DOS and EXT1/EXT2
- · DB25 male connector · Weight: 0.9 lbs.

P/N 137015:

- · Parallel port confirgurable using LPT 1-6 addresses: 3BC, 378, 278, 268, 27C, 26C • Weight: 0.7 lbs. · Connectors: DE9 male serial and DB25 male parallel
- Part No. Product No. Description 1-4 136995 JE1167 2-serial port card \$49.95 \$44.95 137007 JE1168 4-serial port card...99.95 89.95 137015 JE1169 2-serial 1 parallel ... SALE 62.95

Jameco 16-Bit RS232 Serial Cards

- 286/386/486 and Pentium® based computers
- · Two high speed RS232C serial ports (9 and 25-pin Dsub male)
- Supports all IRQ selections for ports A and B
- Flexible I/O
- address selection for ports A and B 127132 Two different clock sources for serial controller: normal clock 1.8432MHz, double clock 3.6864MHz
- Includes manual · One-year warranty
- Size: 6.5"L x 2.5"W
 Weight: 0.4 lbs.
- 139379: One 16550 chip installed expandable to two ports Expansion requires P/N 23157 (1) (pg 12) and P/N 23181 (1) (pgs 11-12), and P/N 27596 (pg 9)

127132: • Two ports

• Both 16550 chips installed - expandable to two ports

Part No.	Description	1-4	5-9
139379	16550 UART 1 port	.\$24.95	\$22.49
127132	16550 UART 2 ports	34.95	31.49

Jameco High-Speed Serial Card **4 Serial Ports**

- · PC/XT/AT and compatibles
- Four serial ports; two each DE9M and DB25M
- High-speed 16C550 UARTs with 16 byte FIFO
- IRQs: 3, 4, 5, 7, 9, 10, 11, 12, and 15
- Includes cables and instruction sheet
- · Weight: 0.7 lbs. One-year warranty
- Part No. Description

132572 4-port hi-speed serial card ...\$49.95

3F0 3E0 2E0 2F8 \$44.95

COM Address

COM Address

Jameco Serial Card 4 Serial Port UNIX

- PC XT/AT/286/386/ 486 and compatibles
- Four serial ports (RS232 interface) for asynchronous communication
- Four DB25 male
- connectors 7.25" long
- Parallel port (LPT1 & LPT2) selectable
- Suitable for MS/DOS, Windows®, XENIX/UNIX, PICK, PC-MOS/386, Concurrent DOS
- AST fourport/XN, ARNET compatible
- Multi operation system interrupt selectable (IRQ2-15)
- COM1-COM4 individual interrupt selectable (IRQ2-15)
- UART (16C450 or 16C550) selectable
- · Weight: 1.1 lbs. One-vear warranty

Part No.	Description		1-4	5-
104678	4-port serial	card	\$79.95	\$71.9

Flexport 22 EX I/O Card QUESTAND 2 Ultra-Speed Serial/2 Parallel Ports

- Two (16C650) serial ports
- Two (EPP/ECP) parallel ports
- 460Kbps transfer rate for UNIX/DOS
- Spider cable with two 9-pin D-sub connectors for serial ports and two 25-pin D-sub connectors for parallel ports
- Header for internal ribbon cable connections
- Multiple addresses for each serial port
- 10 IRQs for each serial and each parallel port Weight: 1.6 lbs. • Two-year warranty
- Part No. Description Multiport super I/O card .. \$139.95 \$129.95 136477

Jameco Input/Output Card

4 Serial/3 Bi-directional Parallel Ports

- · 16-bit card
- · PC/XT/AT and compatibles
- Can be used in an 8-bit system with IRQ 3, 4, 5, 7
- Four serial ports - addressable to 3F8, 2F8, 3E8, 2E8
- Three parallel ports addressable to 3BC, 378, 278
- All ports configurable to IRQ 3, 4, 5, 7, 9, 10, 11, 12, and 15
- · Ports are jumper selectable and can be disabled
- Parallel ports are bi-directional selectable
- UART chips emulate 16550 UARTs
- Cables and panel brackets included for all ports
- Three DB25 female parallel connectors
- . Three DE9 male and one DB25 male serial connectors · Includes manual
- · Weight: 1.0 lb. · One-year warranty

Part No. Description 117971 I/O card (16550 UART)......\$89.95 \$80.95

Jameco Input/Output Cards 2 Serial/1 Parallel Ports

- PC/XT/AT and compatibles
- · One parallel printer port
- Two RS232C serial ports
- One game port
- All ports can be disabled
- · Includes cables and manual
- One-year warranty

8-bit 105611: • Primary: COM1 or COM3

- · Secondary: COM2 or COM4
- Interrupt requests for primary and secondary serial ports: IRQ 3, 4, 5 and 9 Weight: 0.4 lbs.

120432

16-bit 120432: • Primary: COM1, COM2 or COM3

- · Secondary: COM1, COM2 or COM4
- Selectable to IRQ: 3, 4, 5, 7, 9, 10, 11, 12 or 15
- One multi-mode parallel port selectable to standard parallel port (SPP), enhanced parallel port (EPP) or extended capability port (ECP) • Weight: 0.5 lbs.
- Address selectable to LPT1-LPT6 and select from IRQs: 3, 4, 5, 7, 9, 10, 11, 12, or 15

Part No.	Description 1-4	5-9
105611	I/O card (w/ 16450 UART)\$24.95	\$22.49
120432	I/O card (w/ 16550 UART)49.95	39.95



"Extended" I/O Card 4 Serial/2 Bi-directional Parallel Ports

Add more peripherals to your system and avoid Com port conflicts using this card with extended address/IRO



options! For compatibles 286 & up • Compatible w/ Windows® '95

With extended IRQs: 3, 4, 5, 7, 9, 10, 11, 12, 14, 15 for all serial and parallel ports

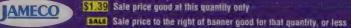
- 16-byte FIFO buffer UART chips emulate 16550
- One 37-pin connector with 4 DE9 cable fanout for easy connection • 2 parallel cables
- Configureable using COM 1-8 and LPT 1-3
- · Includes manual and quick reference card

· Weight: 1.7 lbs. Two-year warranty Part No. Description

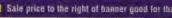
130876 Extended I/O card

\$116.95

Price



Documentation available at ftp.jameco.com Also available at your local JIM-PAK retailer - see page 128



JAMECO Serial Cards, Memory Cards and Switch Boxes 117

16-Bit I/O Card Two 16C550 Serial Ports

· PC XT/AT, Pentium® and compatibles Windows® 3.x

and 95 · 2 high speed (16C550)

serial ports • IRQ's: 3, 4, 5, 7, 9, 10, 11, 12, 14, 15

· Serial ports addressable to

3F8, 2F8, 3E8, 2E8, 100, 180, 290, 340 Serial ports: one 9-pin and one 25-pin D-sub male connectors • Includes manual

PCB size: 6.5"L x 3.5"H
 One-year warranty

· Weight: 0.7 lbs.

Part No. Description 142826 Two-port serial card.....\$69.95 \$62.95



High Speed Serial Card Four 16C550 Serial Ports

 AT 286/ 386/486 compatible Four serial

ports: 2 DE9 male, 2 DB25 male Serial ports can be configured by removing or inserting jumpers

16C550 UARTs with 16 bytes FIFO buffer built in allow data to enter the PC while the CPU is busy servicing other interrupt requests • IRQs: 3, 4, 5, 7, 9, 10, 11, 12, 14, 15

Serial ports addressable to: 340, 290, 180, 100, 2E8, 3E8, 2F8, 3F8

Includes cables, manual and quick refrence guide

Weight: 1.4 lbs.
 One-year warranty

Part No. Description Four-port serial card\$139.95 \$125.95

LM PC Products Serial Easy Cable **Automated Switch Box**

 Minimum system requirements: PC compatible 386 processor. Windows® 3.xx in enhanced mode, 0.5MB hard disk space

Device and cable

configurations selected through software 1' cable has DE9 connectors: one female, two male

Includes power adapter (6VDC @ 200mA), user's

manual and software (3.5" disk) Switch box size: 4.3"L x 2.5"W x 0.9"H

 Weight: 1.4 lbs.
 One-year warranty Part No. Description

Price \$119.95 1-in-2-out serial switch box .. 135933

Jameco 8MB SIMM **Memory Expansion Card**

AT/386/486



Use 1MB SIMMs in

2MB increments (P/N 41769, pg 16) • EMS 4.0 compatible (100% hardware)

 Software driver included 0KB installed · Weight: 1.3 lbs. · One-vear warranty

Part No. Description 112141 8MB memory card.

4-to-1 Parallel and Serial **Auto Switch Boxes**



· Expandable to 1MB with RAM module (see below)

· Automatic and manual modes selectable

Transparent to user
 Non-power (passive)

• 76953 Interface: 4 DB25 female input ports 1 DB25 male output port

• 76945 Interface: 4 DB25 female input ports 1 DB25 female output port

· AC adapter is optional, not included recommend P/N 100853 (pg 63)

 One-year warranty Manual included

• Size: 8.8"L x 6.3"W x 2.3"H · Weight: 3.7 lbs.

Part No.	Description 1-4	5-9
76953	Serial switch box\$59.95	\$53.95
	Parallel switch box69.95	62.95
85569	1MB RAM module for 76945 SALE	99.95

4-to-2 Parallel Auto Switch Box

Two output ports

 Auto and manual modes selectable

 Transparent to user · AC adapter and

manual included

Size: 10.8"L x 5.8"W x 1.3"H

· Weight: 2.8 lbs. · One-year warranty

• Interface: 4 DB25 female parallel input ports 2 DB25 female parallel output ports

Description Part No.

Parallel switch box\$89.95 \$79.95 **Bi-directional Auto Parallel Switchers**

· Supports IEEE 1284 nibble mode

Windows®/DOS compatible

Cable distance (max.): 20' (see page 126 for cables)

DB25 connectors

· Includes software and manuals

• Size: 4.0"L x 3.3"W • One-year warranty

P/N 127221:

 Connects 2 computers to printer, or 1 computer to 2 printers

Timeout: 10 sec.

Non-powered

(power/adapter optional)

· Manually switchable via software or switch

· First-come, first-served transfer · Weight: 0.4 lbs.

· Connects 2 computers to 1 printer,

or 1 computer to 2 printers

Selectable timeout: 15, 45 sec.

 Non-powered (power/adapter optional)

Manually switchable via software or button

Broadcast mode (send same file to two printers of same mode simultaneously)

· Weight: 0.4 lbs.

Part No. Description 127221 Auto switch - 2-1, 1-2.....\$29.95 \$26.95 Auto switch - 2-1, 1-2......49.95 142287

Low-Cost Switch Boxes

Switch from printer to modem, share a printer between computers, or many other applications including video, fax/modem, networking and keyboard/monitor switching.



Metal construction

· Color: beige · One-year warranty

See pages 126-127 for compatible cables

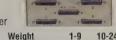
2-way Switch Box -DB25 (female)

Typical application: printer

20095	6.0" x 5.8" x 2.3"	1.3 lbs	\$8.95	\$7.95
Part No.	Size (L x W x H)	Weight	1-9	10-24
. , p	approduction printe	E		

4-way Switch Box -DB25 (female)

Typical application: printer



Part No. Size (L x W x H) 6.0" x 4.0" x 2.4" 1.5 lbs. \$14.95 \$13.49

2-way Switch Box - DA15HD/5-pin DIN (female)

 For two computer systems requiring one keyboard and one monitor - diodes maintain keyboard in powered state



Size (L x W x H) Weight 1-9 10-24 114155 6.0" x 4.0" x 2.3" 1.3 lbs.\$17.95 \$15.95

2-way Switch Box - DA15HD/5-pin DIN (female)

· For single computer system requiring use of two keyboards and two monitors



Part No. Size (L x W x H) Weight 114163 6.0" x 4.0" x 2.3" 1.3 lbs...... SALE \$13.49

2-way Switch Box - HDD 15/6-pin mini DIN (female)

 Typical application: monitor/keyboard

Part No. Size (L x W x H) Weight 1-9 6.0" x 4.5" x 2.6" 1.3 lbs. \$14.95 \$13.49 79177

2-way Switch Box - DE9 (female)

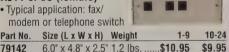
 Typical application: serial or TTL monitor

Part No. Size (L x W x H) Weight 10-24 6.0" x 4.8" x 2.5" 1.2 lbs.\$9.95

2-way Switch Box -

RJ11 6P6C (female) Typical application: fax/

modem or telephone switch



6.0" x 4.8" x 2.5" 1.2 lbs. ... 2-way Switch Box - 8-pin mini DIN (female)

10-24

• Typical application: Macintosh® Part No. Size (L x W x H) Weight 5.5" x 5.0" x 2.0" 1.2 lbs. \$12.95

2-way - 2 DB25 (female), 1 36-pin Centronics (female)

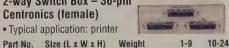
 Typical application: printer Part No. Size (L x W x H) Weight 1-9 6.0" x 5.3" x 2.0" 1.4 lbs. .\$14.95 \$13.49

2-way Switch Box - 36-pin Centronics (female)

Size (L x W x H)

Part No.

20132



6.0" x 5.8" x 2.3" 1.4 lbs. \$9.95 \$8.95



\$99.95

10-24

118 Converters and Sharing Devices

NEW

JAMECO Bi-directional Serial/Parallel Converters

- · US input voltage versions available
- Bi-directional conversion of parallel and serial signals
- · Serial interface: hardware handshake RTS/CTS, software handshake XON/XOFF; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- · Connectors: one DB25 female (serial) and one Centronics 36-pin male (parallel)
- Stop bits: 1 or 2 Baud rate: 300 to 38,400 bps
- · Includes AC adapter (9VAC @ 200mA) and manual • Size: 4.0"L x 2.5"W x 1.0"H • Weight: 0.8 lbs.
- · One-year warranty

Part No. Description 116935 110VAC bi-convtr. non-buffered \$49.95 \$44.95

Bi-directional Serial/ Parallel Converter

115.2kbps, 110 byte buffer

- · One DB25 female connector. one Centronics 36-pin male connector
- DCE/DTE selectable switch
- · Fully compatible with Window 95®
- Baud rate: 300 bps 115200 bps · FCC class A certified, CE certified
- LED indicator for parallel busy status
- Stop bits: 1 or 2 Buffer size: 110 bytes
 Size: 3.3"L x 2.3"W x 1.0"H Weight: 0.3 lbs.
- One-year warranty

Part No.	Description	1-4	5-9
144961	Bi-directional	converter\$69.95	\$62.95

JAMECO DB25-Pin Parallel Data **Line Booster Adapter**

- · Extends parallel signal up to 50 fee . Used on the DB25 end
- of your printer cable · Extension cable should be 25-pin straight
- through and shielded · Connectors: one male and one
- female DB25-pin Unit includes one 115VAC power
- adapter (9VDC @ 200mA) Size: 3.5"L x 2.0"W x 0.8"H
 Weight: 6.0 lbs

Part No.	Description	1-4	5-9
28556	Parallel booster	\$22.95	\$19.95

Modem Technical Guide

THE MODEM

MICRO This guide gives you HOUSE set-up muorans for hardware configuration settings and diagrams for many popular modems.

- Detailed summaries of standard and proprietary commands
- · Glossary details modem and telecommunication terms
- Includes a
- manufacturer's directory · Bonus CD-ROM includes an encyclopedia of I/O cards, an FCC company locator, product demos and references • 625 pages
- Size: 9.0"1 x 7.0"W Weight: 1.8 lb

	Description	1-4	5-9
133794	Modem Technical Guide	\$49.95	\$44.95

IAMECO RS232 to RS485/422 **Bi-directional Converters**

- · Controlled by RTS signal
- DCE and DTE selectable
- Point to point and multidrop operations
- RS485: terminal block and RJ11 connections
- · RS232: DB25 female connector
- · Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- · Cable length: 4000' maximum Includes 9VDC, 200mA power adapter
- · Weight: 0.9 lbs. · One-year warranty

122956: features RS485SI optical isolation: 2000V

129218:	reatures 220VAC Input		
Part No.	Description	1-4	5-
117701	RS232 to 485/422 converter\$49.	95	\$44.9
122956	RS232 to 485/422 iso. convrtr 99.	95	89.9
129218	RS232 to 485/422 (220VAC) 59	95	53.99

Pocket Sized Auto Computer Printer Switches

Connect up to four computers to a printer. Operates on a first-come first-served basis.

- · Connectors: two inputs and one output Interface: parallel DB25 female
- · Two LEDs indicate link status
- Size: 4.0"L x 3.2"W x 1.0"H Weight: 0.4 lbs.

00101.	beige One-year warranty (3404)	,	
Part No.	Description 1	-4	5-9
94641	2 to 1 auto printer switch\$17.	95	\$14.95
134033	4 to 1 auto printer switch	E	24.95
	E00: 6116 1 4 61		

JAMECO SVGA 4-Channel Splitter

Duplicate a video signal from one source to four monitors up to 210 feet.

- Suitable for SVGA. VGA and multisync monitors
- DA15 female connectors on box One-year warranty
- · Slide switch for video signal gain control
- Includes power adapter 9VDC @ 130mA • Size: 8.8"L x 6.0"W x 1.9"H
- · Weight: 3.6 lbs. Description 133866 4-channel monitor splitter...\$79.95

JASCO 2-Line Telephone Adapter

- · Allows use of two telephone lines with one phone · Hold button for each line
- · RJ11 6P4C connector · Both lines may be
- used simultaneously
- . "Y" cable adapter included
- Size: 3.9"W x 3.8"D x 2.2"H
 Weight: 0.9 lbs.

Part No. Description
116804 2-line telephone adapter

3-Way Telephone Line Adapter

- Connect two or three devices (e.g. telephone, fax, modem) to one line Internal switch prevents interruptions; when one line is in use other NEW lines cannot be used
- For standard telephone lines Cord length: 6' 7.5'
- Size: 2.5"L x 1.8"W x 0.9"H Weight: 0.3 lbs Part No. Description 144848 3-way telephone adapter....\$14.95 \$13.49

2-Way and 4-Way Computer **System Sharing Switch Boxes**

132249

DA15HD/5-pin DIN/DE9M

- Allows 2 or 4 users VALUE to share a system
- · Each user may need a set of the following cables: P/N 66173, DA15HD M-M for monitor: P/N 114913. 5-pin DIN M-M for keyboard; P/N 132345, DE9 F-F for serial mouse (cables - see page 127)

Internal diodes maintain keyboard in powered state when switching between systems

Size: 7.5"L x 5.3"W x 2.8"H

Part No. Description Weight (lbs.) 2-way switch box 1.6....\$19.95 \$17.95 4-way switch box 2.3.....29.95 26.95

Intelligent Computer Switch Box

Allows one user to access two systems

Switch CPUs by hot keys or by buttons on the unit.

- PC compatible
- Supports SVGA, VGA and multi-sync monitors
- · Buzzer sound for switching confirmation
- Three stages: can be cascaded for additional systems (note after two stages you may require a power adapter on each unit)
- Auto-scan w/ time interval switches or manual switch
- Size: 8.8"L x 5.9"W x 1.8"H · Weight: 3.3 lbs.
- One-year warranty

94641

Recommended cables:

Cables (pg 127)	Serial port	Keyboard	Monitor
Part Number	(2) 25700	(2) 114913	(2) 66165
Configuration	DE9	5-pin DIN	DA15

Description Computer switch box\$149.95 \$134.95

PRIMAX Instant Printing Network with up to 16 Computers and one Parallel Printer



 PC/XT/AT/386/486 and compatible computers Build a printer sharing network by simply plugging a transmitter into the parallel port of each computer and a receiver into the printer and connect up to 1200 feet of easy to route modular telephone-type cable. Requires no software.

Specifications: Transmitter connectors: DB25 male, RJ11 female

Receiver connectors: Centronics male, RJ11 female

Uses telephone-type cable

- Transmitter includes 25' of cable
- High transfer speed of up to 6,000 cps
- No external power necessary for most applications
- Timeout: 5, 15 or 30 sec.
- · Operating mode: first come, first served
- Size: (Transmitter) 3.0"L x 2.5"W x 1.0"H

3.3"L x 2.5"W x 1.0"H (Receiver) · Weight: 0.5 lbs. · Two-year manufacturer's warranty

Part No. Product No. Description 111835 ML110 Rec., 36-pin male \$39.95 Trans., 25-pin male .. SALE **111843** ML100

\$1.39 Sale price good at this quantity only **AMECO**



Documentation available at ttp.jameco.com Also available at your local JIM-PAK retailer - see page 128

99.7% Stock

TT SYSTEMS 95 Name and Number Caller ID

See the name and number of the caller. avoid unwanted calls ...plus more!

- · Displays caller information after first ring Stores up to 95
- names and numbers in the memory
- Indicates out of area and private calls
- Dual call reviewing and easy scrolling forward/reverse Time, date, and count of stored calls displayed
- Includes wall mount bracket
- Low battery indicator (9V battery not included)
- Requires local telephone company caller identification service
- Size: 5.9"L x 1.5"W x 3.3"H Weight: 0.7 lbs.

Description Part No. 95 name/number caller ID ... \$44.95 \$39.95 130788

AASTRA Telephone Call Answer Light

- Multi-function light: flash message waiting; continuously-extension in use; flicker-phone ringing
- Includes wall transformer, phone cable, pen holder, paper tray and instructions
- Requires local phone company's voice mail service
- Size: 6.6"L x 4.3"W x 2.5"H Weight: 1.1 lbs. One-year manufacturer's warranty

Description \$29.95 Call answer light\$34.95 134367

A AASTRA Phone Line Busy Indicator

Perfect for multiple users who share one dedicated phone line to avoid accidental hangups or disconnects.

· Compatible with all network services

- · Strictly an indicator will not interfere with emergency operation of phone line
- Size: 2.3"L x 1.3"W x 0.8"H Weight: 0.1 lbs.
- One-year manufacturer's warranty

Part No. Description Phone line indicator.....\$12.95 \$11.49 134261

A AASTRA Busy Line Switch

- Prevents accidental line interruptions when line is currently in use RJ11 6P2C connector
- · RJ11 6P2C cable
- 2' long One switch
- required for each extension phone on line
- Switch allows access to a line currently in use
- · Call display and call answer compatible
- Size: 2.1"L x 1.1"W x 0.8"H Weight: 0.1 lbs.

Description 5-9 \$12.95 120168 Busy line switch \$11.49

Short Haul Modem

- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS232 interface
- Up to 38400 baud
- · Will communicate over 6.3 miles (max.) of cable Size: 3.0"L x 2.0"W x 1.0"H
 Weight: 0.2 lbs.
- One-vear warrantv

Part No. Description \$35.95 \$39.95 Short haul modem...

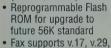
PHOEBE Modems

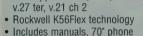
- PC/XT/AT and compatibles
- Five test feature for fault locating
- Support international CCITT and Bell standards
- FCC compliance Haves compatible
- 100% reliable data transfer with V.42 bis/MNP5 error detection · One-year warranty

NEW 56 kbps Data/Fax Internal/External Modems with Voice Mail and Speakerphone

145023

- Create many voice and fax mail boxes with individual areetinas
- Includes hardware error correction (v.42, MNP 2-4). and data compression (v.42bis, MNP5)





cable, communication software, and 3.5" software driver for Windows® 95/NT 4.0

145023: Internal modem

- · 3.5" BitWare for Windows disk
- Size: 7.1"L x 4.3"W Weight: 1.5 lbs.

145031: External modem

- · Supports v.80 video conf. and Rockwell Video Ready Includes free multimedia microphone system
- Includes DB25M to DB25F and DE9F, and 27" cable
- 12VAC @ 1A adapter
- 3.5" Super Voice V2.2 software
- Size: 6.0"L x 4.5"W Weight: 2.6 lbs. Microphone!

Part No.	Description			
145023	Internal 56	kbps	modem SAL	

145023	Internal	56	kbps	modem.	SALI	E \$1	Į
145031	External	56	kbps	modem	**********		l
						_	

BOCA Research FaxWorks 14.4 kbps Data/Fax Modem with Voice Mail

- Compatible with DOS, Windows® 3.1 and Windows® '95
- Remote message access and fax forwarding
- Includes installation
- software, manual and cable
- Set up to 1,000 mailboxes . Two-year warranty
- Size: 6.3"L x 4.3"W Weight: 1.2 lbs.

Part No.	Description	Price
137998	Int. fax/data/voice modem SALE	\$44.95

Robotics 14.4 kbps Data/Fax **Internal Modem**

- Supports 14.4 down to 300 bps of data (U₁
- Compatible with ITU-T standard
- 486 or Pentium® Windows® 3.xx to



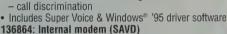
- Includes installation software, phone cable and manuals · One-year warranty
- Size: 5.3"L x 4.0"W · Weight: 1.6 lbs.
- Part No. Description 14.4 internal modem..... 139871

33.6 kbps Data/Fax Internal/External Modems with Voice Mail and Speakerphone

136864

136872

- · Create multiple voice/ fax mail boxes with unique greetings
- Rockwell chipset
- Hardware error correction and data compression
- Supports fax group 3 send and receive rates up to 14,400 bps
- · SAVD provides full duplex analog simultaneous audio/voice and data over one phone line and has 8-bit monophonic audio data encoding at 7.2kHz or 11.025kHz with tone detection/generation



- Size: 5.0"L x 4.1"W Weight: 1.0 lb.
- 145015: Internal modem
- Size: 7.3"L x 4.3"W Weight: 1.3 lbs. 136872: External modem (SAVD)
- Includes DB25 cable and 12VAC @ 1A adapter Cable: DB25F & DE9F to DB25M, 24" long
- Size: 5.7"L x 4.5"W x 1.3"H Weight: 2.7 lbs

Part No.	Description	Pric
136864	Internal 33.6 modem	\$79.9
145015	Internal 33.6 modem Closeout	69.9
136872	External 33.6 modem	99.9

33.6 kbps Data/Fax Internal Modem

Super-fast 33,600 bps data modem and 14.400/ 9600 fax

09.95

29.95

- Fully compatible with ITU-T V.42, V.42 bis, V.34, V.32 bis, V32, V.22 bis, V.21-23, MNP 2-5 and ITU-T group 3 fax machines
- Includes SuperFax and Windows® '95 driver software
- Size: 5.1"L x 4.2"W

· Weight: 1.4 lbs. Part No. Description

129672 Internal 33.6 modem..... Closeout

14.4 kbps External Fax Modem 14.4 kbps V.32 bis data trans-

- mission and group III fax V.42 bis/MNP class 5 data compression and
- error correction Class 1 or 2 fax command set
- Hayes compatible AT command set
- Includes Cheyenne BitWare software for DOS (3.5" disk), manual, cable and wall transformer
- Size: 7.5"L x 5.3"W Weight: 2.8 lbs.

One-year warranty Part No. Description External 14.4 fax modem...\$59.95

RACAL V.34 28.8 External Fax/Modem with QuickLink

- MNP 10-EC protocol for cellular environment DTE interface speeds
- up to 115.2 kbps · Pulse and tone dialing
- 4 phone number storage
- Includes AC adapter, modular telephone cord, data/fax software, and line cord adapter

 Size: 4.2"W x 6.7"D x 1.5"H
 Weight: 3.9 lbs. Part No. Description MDF V.34 ext. fax/modem. 141292

\$79.95



FAX Toll Free 1-800-237-6948 Order Toll Free 1-800-831-4242 Website http://www.jameco.com



Price

66237

DE9 M to RJ11(6P6C) \$1.95 \$1.75 \$1.49

DE9 M to RJ45(8P8C)...2.49 2.19 1.75

DE9 F to RJ11(6P4C)....1.95 1.75 1.49

DE9 F to RJ11(6P6C)....1.95 1.75

DE9 F to RJ45(8P8C)....2.49 2.19

DB25 M to RJ11(6P6C)...2.25 1.95

DB25 M to RJ45(8P8C)...2.49 2.19

DB25 F to RJ11(6P4C)....1.95 1.75

66253 G25S8 DB25 F to RJ45(8P8C)....2.49 2.19 1.75 Jameco Multilink RS232 Tester and Breakout Box

DB25 F to RJ11(6P6C) ... 2.25 1.95 1.59

Visually indicates the status of

on the DTE side and DCE side

by utilizing red/green bicolor

at a glance

mark.

space,

clocking

and off)

Complete

(four states:

LEDs. Provides signal status

lines 2, 3, 4, 5, 6, 8, 20 and 22

1-9 10-99 100+

1.75

RS232 Modular Jack Adapters

Change your RS232 port to an RI11 or RI45

modular phone cable rather than RS232 cable,

modular jack. This will allow you to use

thus simplifying networking applications.

Comes complete with all necessary

wiring and hardware.

Number Number Description

66181 G9P6

66190 G9P8

114737 G9S4

66202 G9S6

66211 G9S8

66237 G25P8

114729 G25S4

66245 G25S6

G25P6

66229

Modular Data Network Cables Category 5

w/o Boot 115721 w/ Boot 124804 124741 124687

- 4 pair
 24 AWG (7 x 43) stranded
- Style 2 wiring 100MHz UTP 8P8C
- · Color code for easy wire tracing · Prevent "snags' All cables have boots except grav
 High-flexibility
- Achieve ontimum system perform

Acilien	e optimum system	i periorinano	5	
Part No.	Description	Color 1-9	10-99	100+
115713	3ft. cable RJ45	Gray† \$2.75	\$2.49	\$2.25
115721	7ft. cable RJ45	Gray†3.95	3.49	2.95
115730	15ft. cable RJ45	Gray 1 5.95	5.49	4.95
115748	25ft. cable RJ45	Gray + 7.95	6.95	5.95
124724	3ft. cable RJ45	Red 2.95	2.75	2.25
124732	7ft. cable RJ45	Red 3.49	3.25	2.95
124741	15ft. cable RJ45	Red 4.95	4.49	3.49
124847	3ft. cable RJ45	Black2.95	2.75	2.49
124855	7ft. cable RJ45	Black3.49	3.25	2.95
124863	15ft. cable RJ45	Black4.95	4.49	3.95
124804	3ft. cable RJ45	Blue2.95	2.75	2.49
124812	7ft. cable RJ45	Blue3.49	3.25	2.95
124687	3ft. cable RJ45	Yellow 2.95	2.75	2.49
	† No	Boot		
		-		

ELENCO Telephone Line Analyzer Test Kit

- · Connects between telephone and wall jack
- Line test: verifies DC voltage to phone
- · Ring test: verifies AC ringing voltage to phone . Black case
- · Loop test: verifies condition of line from phone company central office to your wall jack
- · Cord test: verifies the condition of your phone cord (if detachable) . Weight: 0.8 lbs.
- Size: 4.4"L x 2.5"W x 1.8"H One-year warranty

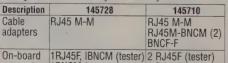
Part No. Description 1-4 119378 Line analyzer kit.....\$24.95 \$22.49

LAN Testers with Remotes

Can easily read correct pin configuration of 10baseT, 10base2, RJ45/ RJ11 modular cables, 258A,TIA568A/568B, token ring, etc. With the remote kit you can test cables installed from a distance either on wall plate or patch panel.



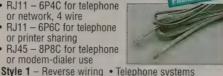
- · Check for cable continuity, miswiring, open, short, grounding and pin configurations . CE approved
- Includes manual, zipper case, test cable(s)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.25"W x 1.0"H (Remote)
- Weight: 0.7 lbs.
 One-year warranty

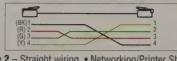


connec	tors i binoivi (remote)	1 RJ45F (remote)
Part No.	Description	Price
145728	Multi-network cable teste	r pro\$89.95
	LanTest cable tester	70 05

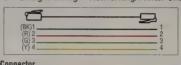
Modular Telephone/Printer **Sharing Cables**

- RJ11 6P4C for telephone or network, 4 wire RJ11 - 6P6C for telephone
- or printer sharing RJ45 - 8P8C for telephone
- or modem-dialer use





Style 2 - Straight wiring • Networking/Printer Sharing



Part C	onnect	or				_
No.	Style	Туре	Length 1	-9	10-99	100-249
11554	5 1	RJ11-6P4C	25ft\$1.9	15	\$1.49	\$1.19
11555	3 2	RJ11-6P4C	7ft9	9	.89	.79
11557	0 2	RJ11-6P4C	25ft 1.9	5	1.49	1.25
11558	8 1	RJ11-6P6C	7ft9	9	.89	.75
115609	9 1	RJ11-6P6C	25ft	C	loseout	.99
11561	7 2	RJ11-6P6C	7ft1.4	9	1.25	.99
11564	1 1	RJ45-8P8C	7ft	C	loseout	.59
115670	6 2	RJ45-8P8C	7ft 1.9	15	1.49	1.25
115684	4 2	RJ45-8P8C	14ft 2.4	9	2.25	1.75
115692	2 2	RJ45-8P8C	25ft 2.9	5	2.65	2.25

Token Ring RJ45 Adapter

- . Use type A or B style data connector with RJ45 jack
- Easy connection to UTP cabling
- Determine own cable length (flexibility)
- Dimensions: 2.5"L x 1.0"W Weight: 0.1 lbs.

Part No. Description 1-9 10-24 25-49 125461 Token ring to RJ45 .. \$9.95 \$8.95 \$7.95

Token Ring Data Connector

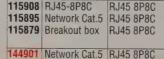
- Terminate two twisted-pair wires
- with grounding shield · Save on installation time
- · Includes 3 types

Strain	rener • weight, o. r ibs.			
Part No.	Description	1-9	10-24	25-49
124716	Data connector for cable .	\$4.95	\$4.49	\$2.95

Jameco RJ45 and Ethernet Cable Testers

- A majority of new system installation problems are due to cables. Why not pretest cables and reduce installation time with these handy testers?
- · Mature system installation will start having intermittent cable problems due to normal wear. Why use expensive on-line system time to troubleshoot cable problems? Try these easy-to-use testers!
- . 115879 does not require 9V battery; all others require 9VDC battery as indicated (not included)

• Zipper case included • Size 4.5"L x 2.5"W x 1.3"H • Weight: 0.4 lbs. Part No. Description Connector Type System Used



Part No. Description 25945* .\$29.95 Tester/breakout box...... \$26.95

cable "breakout" and reconfiguration exists

extends 4" from side of tester.

Size: 3.5"L x 3.3"W x 1.0"H

Cable length: 4"
 Weight: 0.3 lbs.

with 24 in-line switches and 54 in-line machine

tool sockets. Includes handy carrying case, 10

jumper wires and a device wiring chart. Cable

Connectors: (1) male DB25 and (1) female DB25.

115908 115895 115879

T	est Performed	Price
١	liswire, open, short	\$29.95
N	liswire, open, short	29.95
T	ransmission signal,	
S	tatus access	49.95
L	ink status,	

EIA/TIA(T568A), AT&T(T568B) Ethernet 10-base-T receive data, polarity Documentation available at ftp.jameco.com



\$1.39. Sale price good at this quantity only

SALE Sale price to the right of banner good for that quantily, or less

RJ45 straight, reverse wiring

258A, 356A AT&T/Ethernet 10-base-T

Ethernet 10-base-T, IBM token ring,

159.95

NEW

JAMECO Networking Products 121

Jameco Ethernet 10BaseT Hub/Repeaters

These 5 and 9 port hubs are designed for plug and play installation and easy management. Provide an Uplink connection for your network expansion via RJ45 connector.

144944

 Compliance to IEEE802.3 10Base2 and 10BaseT standard

 LED indicators for each. twisted pair port for network line and activity reporting diagnosis



BNC terminator, AC adapter and manual One-year warranty

144944: (5) 10BaseT and (1) 10Base2 ports

Automatic partitioning function for each port to isolate network failure Size: 5.5"L x 4.0"W x 1.3"H
 Weight: 1.9 lbs.

144952

144952: (9) 10BaseT and (1) 10Base2 ports

Networking utilization monitoring by each LEDs to indicate the each percentage of network utilization when hub is activated

• Size: 7.5"L x 4.3"W x 1.3"H • Weight: 2.1 lbs.

Part No.	Description	Price
144944	5-port mini-hub/repeater	\$69.95
144952	9-port hub repeater	89.95

Jameco Ethernet Mini 5-Port 10BaseT Hub

An economical way to connect network devices using twisted-pair (10BaseT) Ethernet cabling.

 UTP star configuration (see opposite page for cable)

 Has "Uplink" connector for cascading hubs

Can be powered off a keyboard with adapter (not included) or via included wall transformer .5VDC @ 900mA • Includes wall mount bracket

· LEDs: power, collision and TX/RX for each port One-vear warranty
 Size: 5.4"L x 3.4"W x 1.5"H

· Weight: 1.7 lbs.

Part No. 10BaseT mini 5-port hub \$69.95 \$62.95 134404

Jameco Ethernet 10BaseT Hubs

These 5 and 9 port hubs simplify the implementation of twisted-pair Ethernet networks following IEEE-802.3 10Mbps CSMA/CD standard.



Topology: UTP star

Maximum distance: 325'
 Software independent

Cable: see style-2 RJ45 cable (opposite page)

· Includes AC power adapter, wall mounting bracket and manual . One-year warranty

130278: 10BaseT 5-port hub

Size: 4.7"L x 3.0"W x 1.0"H
 Weight: 1.7 lbs.

130286: 10BaseT 9-port hub

 BNC cascade (see pg 47 for for BNC T adapters and 50Ω terminators)

Size: 7.3"L x 3.7"W x 1.0"H
 Weight: 2.5 lbs.

Part No. Description Price \$69.95 130278 10BaseT 5-port hub..... 130286 10BaseT 9-port hub.. 109.95

ISA UTP/BNC Ethernet Card

Software supports Novell, Microsoft LAN Manager, Windows® NT, Windows® for



for easy troubleshooting

NE2000 compatible

Power management supports green indicators for energy saving • IRQ: 2, 3, 4, 5, 10, 11, 12, 15 I/O base address: 200H - 3EOH, 240H, 280H, 2COH,

300H, 320H • FCC Certified

Weight: 0.5 lbs. • One-year warranty

Description ISA UTP/BNC Ethernet card..\$24.95 \$22.49

PCMCIA Type II Combo BNC/UTP Ethernet Card

 Minimum requirements: IBM compatible PC with 386SX, one type II PCMCIA socket. BNC/UTP Ethernet connectivity, PCMCIA release 2.1 compliant card services



10Mbps speed in 10BaseT and 10Base2 format

Supports Novell Netware 3.x/4.x, Microsoft LAN manager, Windows® for Workgroups 3.11, Windows® 3.1 and Windows® NT 3.51, Windows® 95 and packet driver

Includes BNC/UTP connector, manual & driver diskette

• Weight: 0.8 lbs. • One-year warranty

Description PCMCIA network card\$99.95

10Base2/10BaseT Print Server

LANPrint is the easiest and most practical device you can add to your network. Connect a printer anywhere on a NetWare Ethernet



network. Connect LANPrint directly to the parallel port of any Centronics compatible parallel printer. Then provide a connection to a network trunk segment, run the LANPrint Easy Install software program to configure the LANPrint print server to register the device to network server print queues and its up and running

Support systems: TYPE-I: supports Novell NetWare; NetWare 2.x, 3.x and 4.x using bindery emulation; supports up to 16 print queues on 8 file servers; print methods: PSERVER.EXE, RPRINTER.EXE, NPRINTER.EXE, Windows® NT compatible

Approvals: product approval: FCC class A, CSA, TUV CE Mark and UL; Novell, YES "It runs with NetWare" certification . One-year warranty

Power: 6VDC @ 500mA included

· Includes manual, software, printer cable and TEE

Size: 4.7"L x 3.0"W x 1.0"H • Weight: 1.8 lbs.

Price Part No. Product No. Description \$139.95 137251 JE5031

Print server.....

Jameco Ethernet 10Base5 to 10BaseT Transceiver

· For 10Mbit/sec. CSMA/CD LAN

FCC class A approved

 LED indicators for power, link, receive and collision

Size: 2.7"L x 1.6"W x 0.8"H

· Weight: 0.3 lbs. · One-year warranty

Part No. Product No. Description 130315 JE5001 10BaseT transceiver \$29.95 \$26.95

Jameco Network Cards

These full featured cards will provide optimum performance for your network in accordance with Ethernet and IEEE-802.3.

ISA Plug-and-Play UTP Ethernet Card

Supports Microsoft's® plug and play for jumperless mode as well as non-plug



and play PCs (Win® 3.11 & Win® 95 compatible)

Friendly setup program with diagnostic function

· On board socket for BOOT ROM Support traffic LEDs for transmit/receive

IRQs: 2/9, 3, 4, 5, 10, 11, 12, 15

Software compatible with NE2000 driver

Reconfigurable settings to solve conflicts

 10BaseT has automatic detection/correction of received polarity

FCC approved
 Weight 0.4 lbs.

Part No. Product No. Description 1-4 133022 JE5029 Card for 10BaseT .. \$29.95 \$26.95

ISA Plug-and-Play Combo BNC/UTP/AUI **Ethernet Card**

· Supports Microsoft's® plug and play for iumperless mode as well as non-plug and play PCs (Win® 3.11 & Win® 95 compatible)



 Full-Duplex Ethernet function to double channel bandwidth

· Diagnostic LEDs for TX/RX, collision and link

Supports IRQs: 2/9, 3, 4, 5, 10, 11, 12, 15

I/O address select: 200H, 220H, 240H, 260H, 280H, 2A0H, 2C0H, 2E0H, 300H, 320H, 340H, 360H, 380H, 3A0H, 3B0H, 3E0H

On-board socket for remote BOOT ROM

· Supports 16K, 32K, 64K and 16K page mode access to BOOT ROM

· Weight: 0.6 lbs. · One-vear warranty

Part No. Product No. Description ISA combo card.....\$34.95 **130235** JE5021

PCI-Bus BNC/UTP/AUI Combo Ethernet Card

 32-bit interface with full-duplex for simultaneous TX/RX with slave-mode operation (Win® 3.11 & Win® 95 compatible)

 PCI system BIOS automatically detects BOOT ROM and I/O port addresses



· Supports PCI clock speeds to 33MHz

· Diagnostic LEDs for TX/RX, collision and link

On-board socket for remote BOOT ROM

Supports 8K, 16K and 32K access to BOOT ROM

Use IRQ5 in different PCI configurations

Interrupt line: INTA, mapped to BIOS

· Weight: 0.6 lbs. · One-year warranty Part No. Product No. Description

> \$49.95 AMECC

Price



19" Rack Mount Enclosures

Perfect for equipment setup in home,

studio or laboratory. · All sides have

ventilation holes · Front and back panels are 0.05" aluminum for easy custom design

Top, bottom, sides durable 0.035* steel

• 19" long front panels he All enclosures have handles except P/N 132812



Physical Specifications

- Hydrodi opodinodiono							
	Case Dimensions (inches)						
	F	ront F	Panel		Inside Ch	asis	Weight
Part No.	W1	D1	H1	W2	D2	H2	(lbs.)
132812	19	.12	1.73	17	9.75	1.25	6.2
132821	19	.12	3.46	17	9.75	3.00	7.9
132839	19	.12	3.46	17	11.75	2.88	9.1
132847	19	.12	5.22	17	11.75	4.75	10.5
132855	19	.12	5.22	17	13.50	4.75	11.8
132863	19	.12	8.56	17	13.50	8.00	15.4
Part No.	Produ	ct No.	Descrip	tion		1-9	10-24
132812 ET125 1U enclosure\$39.95					\$35.95		
132821	ET225	5	2U end	losur	e	44.95	39.95
132839	ET230)	2U enc	losur	e	54.95	49.95
132847	ET330)	3U enc	losur	e	59.95	53.95

5U enclosure.. 19" Industrial Chassis

3U enclosure....

Ideal for today's most hostile work environments

132855 ET335

132863 ET535

 Use with 14-slot PC-BUS compatible backplane P/N 135061 (bottom right)

 Meets EIA RS-310 C standards

· Supports one 3.5" and two 5.25" external accessible bays and two 3.5" internal bays

· Removable disk drive bay with shock resistant design · Front 12VDC cooling fan with removable air filter screen and mesh · Waterproof front panel

Requires power supply P/N 132185 or 132361 (pg 99)

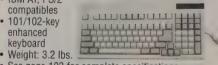
· Includes mounting hardware

Size: 16.8"L x 16.9"W x 7.0"H
 Weight: 36.0 lbs.

Part No.	Description	Price
135095	19" industrial chassis	\$329.95
146851	19" chassis w/ 300W power supp.	399.95

EXIOM. Water Resistant Keyboard

 IBM AT. PS/2 compatibles 101/102-key enhanced keyboard



See page 103 for complete specifications

Part No. Description 141866 Water resistant keyboard

19" Rack Mount Monitor Enclosure

Vented enclosure will protect your monitor from hostile environments.

. Fit: for standard 14" monitor

· Hinged door for accessing monitor controls

· Includes rubber adhesive feet and mounting screws Size: 19.0"W x 15.1"D x 14.0"H



Part No. Description Price 136021 19" rack mount enclosure...... \$269.95

Embedded CPU Card for

Intel Pentium® Processor

Industry wide compatibility. Microprocessor: Intel Pentium® 75/90/100/

133/166MHz processor 133Mmz Pondium 135044 (not included – pg 13)
System memory: 8-128MB, 4 socket for 72-pin SIMM (not included – pg 16) for under \$550!

Cache size: pipelined burst sync/async cache module slot, up to 512KB • 128KB Award licensed BIOS

Two RS232 serial ports (16550 compatible includes FIFO)

One multi-mode parallel port (SPP/EPP/ECP)
Two PCI IDE ports, up to 4 IDE drives

Floppy drive interface: up to two 2.88MB drives Watchdog timer: 0.5/1/2/4 sec time-out period selectable

Built-in PC-104 expansion bus connector

· Includes cables, headers and four 1" hex standoffs Includes manual
 Board size: 13.4"L x 4.9"W

· Weight: 3.2 lbs. · One-year warranty

PCI-VGA Daughterboard

1MB video RAM-upgradeable to 2MB using two P/N 128688 (pg 16)
 Weight: 0.7 lbs.

Includes drivers for Windows® 3.1/95, OS/2 and NT

Part No.	Description	Price
135044	Pentium® embedded motherboard	\$399.95
130833	133MHz Pentium® MPU chip	129.95
135036	VGA daughterboard card	149.95

Relay Panels & Rack

133276/133516/133524

133751

19" Wide Panels:

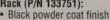
62.95

79.95

89.95

10 gauge black aluminum

 One-year warranty Rack (P/N 133751):



10-32 threaded holes

Used with 19" wide panels 16 gauge CRS base

1/8" aluminum side rails

 Size: 19.8"W x 15.3"D x 84"H (at base) Weight: 18.9 lbs. • One-year warranty

i dit ito.	Description	weight	A LIICE
133276	Rack panel - 1.75"H	0.4 lbs	\$9.95
133516	Rack panel - 3.50"H	0.8 lbs	14.95
133524	Rack panel - 5.50"H	1.2 lbs	19.95
133751	Relay rack - 84"H	21.8 lbs	149.95
40	DI. 101 44 01		

16-Bit ISA 14-Slot Backplane

Fourteen ISA slots

· Keyboard connectors: 5-pin DIN and two passive 5-pin keyboard connectors

Standard PC power

connector or screw terminal posts Weight: 1.7 lbs.
 Size: 12.1 L x 6.8 W

· One-year warranty

Part No. Description

Price 135052 14-slot ISA backplane... \$79.95

16-Bit PCI-ISA-PICMG Passive 14-Slot Backplane

 Ten 16-bit ISA slots, four PCI slots and two PICMG (48-bit) slots

LEDs for ±5 and ±12 volts

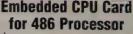
Keyboard connectors: 5-pin DIN and two 5-pin passive keyboard connectors

Standard PC power connector or screw terminal posts

One-year warranty

Weight: 1.9 lbs.
 Size: 12.5"L x 10.0"W

Part No. Description PCI 16-bit backplane\$129.95 135061

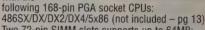


For use with passive back plane (P/N 135052 and

 Award BIOS
 DECLE 135061).

256K cache on board

 Compatible with the



Two 72-pin SIMM slots supports up to 64MB: 4MB – P/N 75117, 8MB – P/N 75213, and 16MB - P/N 75168 (pg 16)

On board connectors and ports: keyboard, power, COM1, COM2, hard/floppy drive (supports two of each), printer port

Bus support: external ISA bus, internal PCI bus for IDE and PC-104 bus • Watchdog port addressable

Serial ports: two high speed 16550 UARTs with 16-byte FIFOs which are MIDI compatible

System power requirement: +5V @ 5A

. Includes cables, driver utility (3.5" disk) and manual

Board size: 7.2"L x 4.8"W

Weight: 1.7 lbs.
 One-year warranty

Part No. Description

Embedded CPU card \$299.95 133241

EXICOM. 48-Bit Digital I/O Card



Low cost IBM PC/XT/AT compatible DI/O card

 48 TTL/DTL compatible digital I/O lines arranged into 8-bit ports

Software programmable for inputs/outputs

Emulates 8255 PPI mode 0

· Buffer circuit provides the high sinking current capacity

Interrupt options: jumper-selectable to level 2, 3, 4, 5, 6 or 7

Added pull-up resistor: CMOS/DRY CONTACT compatible

Power requirement: +5VDC @ 1.6A max.

Size: 10.2"L x 3.9"W
 Weight: 1.2 lbs.

One-vear warrantv

Part No. Product No. Description 136784 AX5214 48-bit digital I/O card\$99.95

AXIOM. **GPIB Interface Card**

· On-board firmware ROM callable for user's application program

Complete Listener/Talker/ Controller (LTC)

µPD7210 GPIB TLC chip



Data transfer rate over 300K bytes/sec.

· Half-sized board fits any I/O slot or laptop PC

6 interrupt levels

RF-shielded IEEE-488 receptable

Selection of 3 DMA channels using host DMA controller

Size: 5.0"L x 4.2"W
 Weight: 1.6 lbs.

· One-year warranty

Part No. Product No. Description 136696 AX5488 GPIB interface card\$199.95



\$1.39 Sale price good at this quantity only

Sale price to the right of banner good for that quantity, or less

Documentation available at ftp.jameco.com Also available at your local JIM-PAK retailer - see page 128

Price

High Performance DAS Card and Software See page 72 to low-cost Data Acquisition kit

A total data acquisition and control solution for under \$450! This package includes the PCL-818LS multi-I/O card and terminal board, plus Genie Lite data acquisition software for Windows®.

· Either 16 single-ended or 8 differential bipolar analog inputs

One analog output

 32 channel digital I/O (16 in, 16 out) 12-bit A/D, up to 40kHz sampling rate

with DMA transfer . Timer counter Programmable gain on all analog inputs Data • One-year warranty Acquisition Weight: 6.4 lbs.

Part No. Product No. Description 127431 PCL818LS/GL Data solution.....\$449.95 139723 PCLS920 Genie Full Software649.95

Four Port RS232/RS422/RS485 Serial Interface Card

The PCL-746+ is a 4-port serial communications interface card. Each port can be configured individually to either RS232, RS422, or RS485 using on-board jumpers



127431

Control

The card uses 16C550 UARTs and improved interrupt handling for reliable operation at transmission speeds of up to 115.2 Kbps.

• IRQ selection: 3, 4, 5, 7, 9, 10, 11, 12, or 15 • Data bits: 5, 6, 7, 8 • Stop bits: 1, 1.5, 2

· Parity: even, odd, none

 Includes manual, 11.8" (30-cm) long cable w/ DC37 to (4) DB25 connectors and PC-ComLib software · Weight: 2.0 lbs. One-vear warrantv

Part No.	Product No.	Description	Price
127474	PCL746+	Communication	card\$249.95
	DCM	CIA Coriol (Cord

PUNICIA Serial Card

16C550 UART with 16-byte FIFO buffer

 User selectable addresses and IRQ (including COM3, COM4)

Low power consumption Two DE9 connectors

• 50~115.2 Kbps baud rate

Two full featured RS232 ports Includes PC-ComLIB software

Weight: 0.4 lbs.
 One-year warranty

Part No. Product No. Description 127440 COMPAD32 PCMCIA RS232 card\$249.95

PCMCIA DAS Card

The Portable Data Acquisition Solution!

The PCIA-71B is a high gain, low input PCMCIA type II DAS card which allows direct sensor input.

 12-bit ADC. 30kHz data transfer

±10V or 0~10V input range

Programmable gain: 1, 10, 100, 1000 (71B) • Eight differential input channels

 4 digital outputs and 4 digital inputs, TTL compatible C and BASIC drivers included

· Weight: 1.3 lbs. · One-year warranty

Part No. Product No. Description Price 136426 PCIA71B PCMCIA DAS card \$529.95

RMV Stepper Motor Control and Data Acquisition Boards

3 wire serial port (Rx. Tx and GND) configurable to any standard baud rate in the 300-115200 range (N,8,1)



109911 Shown with connectors

Additional modules

available! Call to

(PA/PB & PC) configurable pin for pin as inputs or outputs

Three 8/10/12 bit ports

Edge triggered multiple interrupt pins (IRQH & IRQL)

Three stepper motor ports with all the necessary logic to implement monophasic, biphasic and Supervisory half-step stepping modes

Connectors not included . Includes manual

Size: 6.0"L x 2.6"W

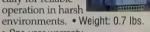
· Weight: 0.2 lbs.

One-year warranty Part No. Description

109911 8-bit step.motor cont./ADC board ...\$124.95 10-bit step.motor cont./ADC board ...134.95 12-bit step.motor cont./ADC board ...149.95

ADAM Remote Data Acquisition and Control Modules

ADAM modules are compact, intelligent sensorto-computer interface units designed specifically for reliable



special order! · One-year warranty Part No. Product No. Description 129525 ADAM4520 Isolated converter......\$119.95 129533 ADAM4050 Digital I/O module......149.95 129541 ADAM4021 Analog output module 199.95 129550 ADAM4017 8-ch. analog input module.. 269.95

RS232/RS422/RS485/ Current-Loop **Serial Interface Card**

User's manual (1.0 lb.)10.95

· RS232, RS422, RS485 or current-loop interface

16C550 UART with 16-byte FIFO

Transmission speeds up to 115 Kbps

Flexible I/O address and IRQ selection

IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15

Supports 2 or 4 wire operation for RS422/485

Supports COM1, COM2, COM3, or COM4

· PC-ComLIB software included

Weight: 1.0 lb.
 One-year warranty

Part No. Product No. Description 136362 PCL740 Communication card

Relay Actuator and Isolated D/I Card

 8 SPDT electromechanical relay actuator outputs, 120VAC @ .5A or 30VDC @ 1A

8 opto-isolated digital inputs

 LED indicators to show activated relays

Jumper selectable isolated/

non-isolated input signals On-board relay driver circuits
 Includes manual

• 37-pin female D-sub connector • One-year warranty · Includes matching male connector, ready to wire

· Easy to use and program · Weight: 1.0 lb.

Part No. Product No. Description Price 125655 PCL725 Relay & D/l card\$169.95

PC-MultiLab Card

The Perfect Solution for Your PC-Based Engineering I/O Needs... PC-Lab Cards

For programmable voltage output and measurement, transducer interfacing, waveform recording, contact closure monitoring and relay control.

 8 Å/D inputs with 12-bit resolution

 32 digital I/O, TTL compatible (16 in, 16 out)

 ±5V A/D input range 20-point wiring terminal

daughterboard

25kHz maximum A/D sampling rate

. One D/A output, double buffered

· Includes software utility diskette w/ DOS drivers

· Weight: 2.5 lbs. · One-year warranty

Part No. Product No. Description 28290 PCL711S PC-MultiLab card...... \$299.95

64-Bit DI/O & Counter Card

 PC/XT/AT (286, 386, 486) compat.

64 digital I/O channels (32 in, 32 out)

Low input loading

High output driving capacity

3-channel programmable interval timer · On-board crystal based clock source

Breadboard area for customized circuits

Event and frequency counting

· Weight: 0.9 lbs. · One-year warranty

Part No. Product No. Description

120192 PCL720 I/O and counter.....\$159.95

24-Bit Digital I/O Card

 PC/XT/AT (286, 386, 486) compatibles 24 TTL digital I/O lines

 Opto-22 compatible 50-pin connector

Interrupt handling

Parallel data transfer Emulates mode 0 of 8255 PPI

TTL, DTL and CMOS logic signal sensing

 Relay and switch monitoring and control · Weight: 0.8 lbs. One-year warranty

Part No. Product No. Description

120213 PCL724 Digital I/O card\$89.95

Dual-Port RS422/485 Cards

This new upgraded card offers the 16C550 **UART** that buffers data into 16-byte packets drastically reducing CPU load and increasing



· 2 or 4 wire operation in RS422/485 modes

Supports Tx, Rx, RTS and CTS signals
IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15

 I/O addressing from 200H to 3F8H Selectable as COM 1-4

. P/N 136434 utilizes on-board optical isolators to eliminate ground loops for reliability in harsh env. · Includes PC-ComLIB software

· Weight: 1.0 lb. · One-year warranty

Part No.	Product No.	Description	Price
120205	PCL743B	RS422/485 card	\$119.95
136434	PCL745B	RS422/485 card	159.95



124 Apple® II and Macintosh® Accessories

See page 16 for Macintosh SWAN Saves

Macintosh® 105-Key Keyboard



- Enhanced 105-key layout ADB compatible
- · Special "key-click" touch; positive feedback for faster, more accurate typing
- Cable included
 One-year warranty
- Size: 18.8"L x 7.8"W x 2.1"H
 Weight: 2.7 lbs

Part No.	Description		1-4	5-9	k
123692	Macintosh	keyboard	 \$49.95	\$44.95	4

SCSI PowerBook Adapter

- Adapts a 25-pin D-subminiature to a PowerBook SCSI interface · Color: black
- Size: 2.3"L x 2.2"W x 0.9"H
- · Weight: 0.1 lbs.

Description



SCSI PowerBook adapter.....\$19.95 \$17.95

Mac to IBM Monitor Adapters

Allows use of Macintosh® computer with IBM monitor (DA-15 male to HD-15 female).

126439

- 10 position DIP-switch supports 6 kinds of signal modes and resolutions
- Size: 2.0"L x 1.5"W
- · Weight: 0.2 lbs. · One-year warranty
- 119538: For Power Macintosh®
- Size: 2.2"L x 1.6"W
- · Weight: 0.1 lbs.

Part No. Description 126439 Mac to IBM adapter. \$8.95 119538 PPC 6100/7100 to IBM adapter .. 5.95 5.35

6100 and 7100 computers 119538

Jameco Extended 80 Column and 64KB RAM Card for Apple® He

- · Doubles the amount of space to 64KB RAM
- · Double high resolution graphics capability
- · Data included
- · Compatible with **AppleWorks**
- Weight: 0.3 lbs.
 One-vear warranty

Part No. Product No. Description

21733 JE864 64KB RAM card.. C \$19.95

SOLTEK Cordless Phone by AT&T

- Two channel operation with LED indicators
- Tone/pulse dialing
- · Redial, speed dial and mute buttons
- · Operating range: approx. 100 yards
- Telescopic antenna · Built in 120V power
- cord w/ adapter 12VDC @ 200 mA
- Two-tone gray color
 Factory reconditioned
- Base size: 8.5"L x 5.0"W x 1.5"H
 UL approved
- Weight: 1.3 lbs. · 90-day warranty

Part No. Description 133743 Cordless phone (70 avail.) \$29.95

Jameco Switching Power Supplies for Apple® II, II+ and IIe

- · Part No. 22269: 60 watts
- +5V @ 5A, +12V @ 2.5A, -5V @ 0.5A, -12V @ 0.5A
- Part No. 105540: 83 watts
- +5V @ 6A, +12V @ 3A, -5V @ 1A, -12V @ 1A
- Fully regulated output
 110V/220V switchable
- · Apple® type plug-in power cord included
- · Can drive four floppy disk drives and up to eight expansion cards
- · Short circuit and overload protection
- Fits inside the Apple® II, II+ and IIe
- Same physical size as original power supplies

Size: 9.5"L x 3.6"W x 2.2"H • Weight: 2.5 lbs. • Data included • One-year warranty

Product No. Description KHP4007 60W switching power supply for Apple® II, II+ and IIe\$49.95 \$44.95 83W switching power supply for Apple® II, II+ and IIe59.95 53.95

Macintosh® Mouse

- High 20 to 6.400 dpi resolution
- · Stainless steel low friction rollers
- · ADB (Apple Desktop Bus) connection
- · Weight: 0.4 lbs.
- One-vear warranty

Part No. Description 119327 Mac Mouse \$19.95 \$17.95 \$15.95

Macintosh® Ergonomic Mouse

- ADB (Apple Desktop Bus) compatible
- Comfortable ergonomic design
- · Left button primary, right button drag lock/release
- · Weight: 0.3 lbs.
- · One-year warranty

Part No. Description

126105 Mac ergo mouse. \$24.95 \$22.95

Replacement Battery

- · Voltage: 3.6V · Amps: .85Ah • Diameter: .579" • Style: half AA
- Connection: Macintosh[®]

126754 TL5101S

Part No. Product No. Description Tadiran lithium bat. ..\$8.95 \$7.95







· Weight: 0.9 lbs.

 Size: 5.7"L x 4.8"W x 2.0"H
 One-year warranty Description 120441 Mac trackball \$34.95

Jameco Switching Power

Supply for Apple® IIGS

Fully regulated +5VDC @ 6A, +12VDC @ 2A,

· 6" output cable with 7-pin Molex connector

85518 Apple IIGS pwr. supply \$59.95 53.95 \$45.95

Macintosh® Trackball

· Weight: 2.3 lbs. · One-year warranty

-5VDC @ 0.5A, -12VDC @ 0.5A

60 watts

115VAC

• 5.5' three

pronged

Input voltage:

removable power

cord included

· Data included

4 mounting holes

Part No. Description

Space saving alter-

· ADB port compatible Ergonomic shape

mechanical mechanism

native to mouse

Tactile buttons

· Rugged opto-

Size: 11.3"L x 3.4"W x 2.2"H

Apple Macintosh® Cable Guide



Price



SALE 10.95

4.95







Upgrade!

47.95

130016

129971 SCSI-I terminator

SCSI

art No.	Description	1-9	10-49
30016	6' Centronics 50M to 50M		
	- double shield	Closeout	\$7.95
3162	6' Centronics 50M to 50M	9.95	7.95
30032	6' SCSI-I DB25M to 50M		
	Centronics	5.95	5.49
2848	1.5' 50-pin SCSI socket		
	ribbon cable	3.95	3.49
25250	Cent. 50 M SCSI-I (1) to		

PowerBook SCSI

125268 DB25F to HDI-30M adapter \$19.95 \$17.95

Switch Box 127845 6' 8-pin mini DIN, M to M \$4.95 \$4.49

Cent. 50 F SCSI-I (2) "T"

10591 Printer/Modem

Part No.	Description	1-9	10-49
10604	6' mini DIN8M		
	to mini DIN8M 📖	\$4.95	\$4.49
130024	10' mini DIN8M		
	to mini DIN8M	5.95	5.49
24686	6' DB25M to mini DIN8M		
	for Laser Writer I	Cinssout	1.95
117006	6' DB25M to mini DIN8M for		
	modem and Laser Writer II	Classout	2.49
10591	6' DB25M to mini DIN8M		
	for Hayes modem 🚾	4.95	4.49

Part No.	Description	1-9	10-49
73306	8-pin mini DIN AppleTalk kit	\$13.95	\$9.95
73269	8-pin mini DIN RJ11		
	PhoneNet kit	13 95	12 40

\$1.39 Sale price good at this quantity only

AT&T Model 5200

Documentation available at ftp.jameco.com Also available at your local JIM-PAK retailer - see page 128

SALE Sale price to the right of banner good for that quantity, or less

JAMECO Gender Changers, Adapters and Testers 125

Jameco Tri-Port Serial Adapter

· Great for remote monitoring of RS232 signals

 Connectors: one DB25 female, one DB25 male and one DE9 male

· Gold plated contacts · Wt.: 0.1 lbs

 Materials: connector shells are metal Part No. Description 105195 Tri-Port serial adapter. \$8.95

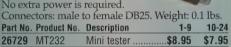
> Jameco RS232 Interface **Check Tester**

Check tester identifies simple interface problems which you can repair yourself. Targets the status of lines 2. 3. 4. 5. 6. 8. 11. 19 and 20. Connectors: male to female DB25

Part No. Product No. Description 14285 CT232★ Check tester. \$9.95 \$8.95

Jameco RS232 Mini Tester

Tests any RS232 (DB25) interface and helps to identify equipment that has failed. Seven bi-color LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required.



Jameco RS232 Loopback Tester

Use for diagnostic testing of RS232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20 and 15 to 17. The tester acts as a data verifier by sending data back to the transmission device. Connectors: male to female DB25. Weight: 0.1 lbs. Part No. Product No. Description 1-9 \$6.95 22728 LBT Loopback tester SALE

Jameco Miniature RS232 Breakout Box

Design new interfaces or modify old ones quickly and easily. Completely self-contained, these boxes include (25) 22 AWG wire jumpers and machine tool sockets. Connectors: male to female DB25 Part No. Product No. Description 1-9

11181 BBMF* Breakout box\$8.95 \$7.95

ARTEL Instant Interface®

Analog to RS232

Computerize your analog products! The Instant Interface® offers an easy way to inter-

face analog signals along with six channels of digital I/O to a host computer. The module's internal A/D converters provide four input channels and 8 bits of resolution. Each channel can be scaled to accept virtually any analog input.

- · Application software included to data log, control setpoints, or scale input data into application specific engineering units (e.g.: °F, PSI)
- RS232 interface Weight: 0.4 lbs

110202		orginal or i in			
Part No.	Description		1-4	5-9	
123887	Digital I/O anal	g interface	\$129.95	\$119.95	

Jameco D-Sub 9-Pin to 25-Pin Serial Adapters

· Weight: 0.1 lbs. 10305: For use in AT or other computer systems that have

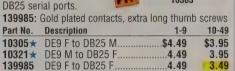
VALUE

1-9

10-24

\$7.95

9-pin D-sub serial ports. 10321: For PC/XT computer systems which have



Jameco D-Sub 9-Pin to 15-Pin Monitor Adapter Kit

 Kit contains all components necessary to build a snap-together 9 to 15-pin monitor adapter, using the manufacturer's pin-out information Because of the variety



of different VGA systems, pin configurations vary from manufacturer to manufacturer . No soldering is required

. Connectors: female DE9 to male DA15 high density

Weight: 0.06 lbs.

Part No.	Description	on		 1-9	10-49
10292	Monitor	adapte	r kit	 .\$4.49	\$3.25

Jameco Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily. Internal pin configuration: Weight: 0.1 lbs.

26260/17224: 1-1, 2-3, 3-2 4-5, 5-4, 6-20, 20-6, 7-7, 8-20.

17224

	8-5, 6-20, 20-6, 7-7.	FTP
Part No.	Description	
26260	DB25 M to DB25 M.	\$4
26243	DB25 M to DB25 F	Δ

Jameco PS/2 Port to AT Compatible Serial Mouse Adapter

DB25 F to DB25 F.....

PS/2 and compatibles. Allows you to use an AT compatible serial mouse with a PS/2 computer. One male D-sub 9-pin connector. One male 6-pin mini DIN connector. Two retaining screws secure the connector in place. Retaining screws have plastic handles for easy attachment.

• Color: beige • Size: 1.6"L x 1.3"W • Weight: 0.1 lbs. Part No. Description 100335 Serial mouse adapter.... \$3.49

Jameco VGA Adapter

 Adapts 15-pin VGA to 9-pin output · Male DA15 to female

DE9 adapter · Weight: 0.1 lbs

Part No. Description 75264 VGA adapter



26260

\$3.95

3.95

3.95

Jameco Slim-Line Gender **Changers and Cable Interfaces**

These revolutionary slim-line gender changers are only 0.69" wide. eliminating the space problems caused by standard gender changers. When plugged



117735

into your existing cable, they add only 0.44" to the cable. All metal cases. Weight: 0.04 lbs.

Standard & Monitor Gender Changers

- · Captive locking screw (male)
- · Captive locking nut (female)
- · Grounding tangs (male)

Network Cable Interface (P/N 117735)

- · Captive lock connector with slide lock
- · Adapts screw-on style to slide-lock style

,		-	
Part No.	Description	1-9	10-49
18497★	D-sub 9-pin male	\$3.49	\$2.95
18489*	D-sub 9-pin female	3.49	2.95
56071	D-sub 15-pin male	3.95	2.49
56063	D-sub 15-pin female	3.95	1.95
119319	D-sub 15-pin female HD	3.95	3.49
119301	D-sub 15-pin male HD	3.95	3.49
18446*	D-sub 25-pin male	3.95	3.49
18420★	D-sub 25-pin female	3.95	3.49
117735	D-sub 15-pin network cable		
	interface - male to female	3.95	2.95

Jameco Standard D-Sub Gender Changers VALUE



Standard 9, 25-pin and D-subminiature male and female gender changers for interfacing two cables or connectors of the same gender.

· Weight: 0.1 lbs.

Part No.	Description	1-9	10-49
16635	D-sub 9-pin male	\$3.95	\$3.49
16643	D-sub 9-pin female	3.95	3.49
22058	D-sub 25-pin male	3.95	3.49
22074	D-sub 25-pin female	3.95	3.49
		00:	

Jameco IEEE-488 to **Centronics Converter Adapter**

· Allows printing from an IEEE-488 device to a parallel printer

Uses a 9VDC, 200mA wall transformer (included)

 IEEE-488 24-pin female input connector

· Centronics 36-pin male output connector

- DIP switch configurable to 31 IEEE-488 addresses
- Size: 4.0"L x 2.5"W x 1.0"H
- · Weight: 0.9 lbs. · One-year warranty

Part No. Description 122964 IEEE to Centronics converter \$59.95 \$53.95



126 JAMECO Cables and Adapters

Universal Serial Bus Cables 144830 ---144813 Part No Description 10-24 144813 USB 4-pin female, series A \$7.95 \$6.95 panel mount 144805 USB 4-pin female, series A to series B, 6

USB 4-pin female, series A, 6' 6.95

IEEE-1284 Compliant Enhanced **Parallel Cable**

USB 4-pin female to 5-pin

100" female, series A, 6"

The IEEE-1284 is the newest standard in high speed printing. Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

144821

144830



6.95

6.25

6.25

- . Double shielded with 28 AWG stranded twisted pair inner conductors
- · Molded shells, PVC plastic
- . Color: light gray . Length: 6' . Weight: 0.6 lbs. Part No. Description 1-9 130067 DB25M to Centronics 36M .\$9.95 \$8.95

Jameco IEEE-488 Cables

Three different styles of cables are offered allowing flexibility in developing an IEEE-488 general purpose instrument bus (GPIB).



A variety of cable lengths 73154 are offered for each type to ensure that the IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices).

24-pin IEEE-488 connectors
 Color: grav

GPIB/GPIB

These cables are the standard IEEE-488 cables having stackable GPIB connectors on both ends.



Part No.	Description	Wt. (lbs.)	1-4	5-9
73154	1 meter IEEE-488	0.8\$2	29.95	\$26.95
115781	2 meter IEEE-488	1.23	34.95	31.49
115801	4 meter IEEE-488	2.03	39.95	35.95
			_	

Jameco DB25-Pin Ribbon Cable Assembly

- · Metal connector
- 300V rating 105°C rating
- 28 AWG flat cable
- Pin 1 cable indicator
- · Tin plated contacts
- · Weight: 0.2 lbs.

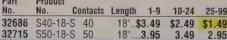
Part No. Description 4' male to female..



Jameco Socket Connector to Socket Connector Ribbon Cables

- Socket to socket connection
- 300V rating
- · 28 AWG gray flat cable
- · Tin plated contacts · Weight: 0.1 lbs.

Part **Product**



Jameco Floppy Disk Drive Cable



For PC/XT/AT and compatible computers

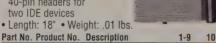
· Connects floppy drives to controller card · Wt.: 0.2 lbs Part Product

Description TDC★ For use w/ 1-2 3.5" and 5.25" drives (27" long)...\$5.95

Jameco IDE Hard Drive Cable

· Includes two socket 40-pin headers for two IDE devices

72805 GCA28*



IDE cable

Jameco 6" Power Supply Extension Cable Set 51 (F)

\$3.95

1-9

118068

\$1.95

106366

139037

 Two 6". 6 connection cables Use with standard pair of 6 wire connectors Wiring: 18 AWG, 300V rating, UL/CSA approved

. Weight: 0.1 lbs. Part No. Description 130809 Power extension cable set \$2.95

Jameco 3.5" and 5.25" **Disk Drive Power Splitters**

· For PC/XT/AT and compatibles Splits 4-line Molex

male into 2 females

 Length: 5" each side
 Weight: 0.1 lbs. Part No. Product No. Description 10-49 PCY* \$2.49 28353 \$1.95 3.5 PCY3 72303 2.49

Jameco 3.5" Disk Drive Power Adapter Cable

For PC/XT/AT and compatibles

· Allows connection of standard 3.5" disk drives to power supplies

 Length: 5" • Weight: 0.2 lbs Part

Product No.

Description 28396 PC3★ 3.5" drive power cable ...\$2.49

Jameco RGB Video Cables

• 5 BNC to DA15-pin male high density

75Ω coaxial cable

 Pin 1 red, pin 2 green, pin 3 blue, pin 13 (white/black) vertical, pin 14 (gray) horizontal

Part No. Description Wt. (lbs.) 6' RGB video cable 0.7 \$19.95 \$17.95 73648 10' RGB video cable 0.9 118068 .22.95

Jameco RCA Cables

· Video/audio applications

See page 44 for jacks

· Color: black · Weight: 0.1 lbs.

• 139037: 1/8" male stereo plug to (2) RCA male (red & white)

• 134797: Two 4' cables,

(I Diaci	k allu i blowil)	(A)	
Part No.	Description	1-9	10-99
106366	3' male to male	\$.99	\$.85
134797	4' male to male (2 cables	s) Closeout	1.25
139037	5' male to male "Y"	2.95	1.95
106374	6' male to male	1.49	1.25
29348	10' male to male	1.75	1.49

Jameco SCSI Adapters





· Weight: 0.2 lbs.

Part No. Description 1-9 10-24 133920 50-pin ribbon header to DB25 female SCSI-I back panel port..\$9.95 \$8.95

125241 50-pin ribbon header to HPDB50 female SCSI-II back panel port 14.95 13.49

134666 Cent. 50 male SCSI-I to DB25 female SCSI-I..... 9.95 8.95

134674 DB25 male SCSI-I to Cent. 50 female SCSI-I 8.95 Cent. 50 male SCSI-I (1) to

Cent. 50 female SCSI-I (2) "T" SALE 10.95 145293 DB25 male SCSI-I to

HPDB50 female SCSI-II .14.95 13.49 144231 Cent. 50 male SCSI-I to

HPDB50 female SCSI-II. .14.95 13.49 144223 HPDB50 male SCSI-II to

Cent. 50 SCSI-I terminator4.95 Jameco SCSI Cables

HPDB68 female SCSI-III..



· For PC/XT/AT and compatibles · All lines connected † Also Macintosh® compatibles

Part No. Description 1-9 10-49

72848 50-pin SCSI socket ribbon cable † (18")\$3.95 \$3.49 137550 68-pin SCSI-III internal ribbon cable (27")...... .22.95 19.95 Male 50-pin SCSI Centr. to

male 50-pin SCSI Centr. † (6').... 118084 Male 50-pin SCSI Centr. to male HPDB50 SCSI-II cable (6') 24.95 22.49

118914 Male HPDB50 SCSI-II to male HPDB50 SCSI-II (3') ..19.95 17.95

118076 Male HPDB50 SCSI-II to male HPDB50 SCSI-II (6')24.95 22.49

137216 Male Centr. mini 68 SCSI-III to

male Centr. mini 68 SCSI-III (3') 29.95 137226 Male HPDB68-pin SCSI-III to

male HPDB68-pin SCSI-III (3') 29.95 26.95 137568 Male HPDB68-pin SCSI-III to

male HPDB50-pin SCSI-II (3') .. SALE 137576 Male HPDB68-pin SCSI-III to

male 50-pin Centr. SCSI-I (3') 39.95 35.95



\$1.39 Sale price good at this quantity only SALE Sale price to the right of banner good for that quantity, or less



Documentation available at ttp.jameco.com Also available at your local JIM-PAK retailer - see page 128

Jameco Parallel Printer Cables and Adapters



 PC/XT/AT and compatibles to Centronics-type printers

28695/67547 (DB25 to 36-pin adapter)

· Molded and fully shielded DB25-pin male and 36-pin Centronics male connectors

Part No.	Description \	Neight (lbs.)	1-9	10-24
28695	DB25M to 36-pin			
	male adapter	0.1	.\$4.95	\$4.49
67547	DB25F to 36-pin			
	male adapter	0.1	4.95	4.49
28741	6' right angle ca	ble 0.5	5.95	5.35
28716*	6' straight cable	0.4	3.95	3.25
123781	10' straight cable	0.6	6.49	5.75
28708*	15' straight cable	0.8	9.95	8.95
101899	25' straight cable	1.1	.12.95	11.49

Jameco Centronics 36-Pin **Printer Extension Cables**

 Molded and fully shielded Centronics 36-pin male and female connectors

 Adds to standard printer cable or for use with switch box applications



109583

· All lines connected

Part No.	Description	Weight (lbs.) 1-9	10-24
135028	8' male to	male 1.3 Closeout	\$4.95
40791	10' male to	male 1.09.95	8.95
40782	10' male to 1	female 1.09.95	8.95

Jameco Serial Modem Cables

· Molded and fully shielded DB25-pin male

and female connectors 9 pins wired straight through: pins 1-8 and 20

1			Chamber
Part No.	Description	Weight (lbs.) 1-9	10-24
53962	6' male to male	0.4\$4.95	\$3.95
26008	10' male to male	0.5 6.95	6.25
53858	6' male to fema	ale 0.44.95	3.95
25769*	10' male to fema	ale 0.6 6.95	5.95
135327	10' M to F (meta	ıl) 1.2Closeout	3.95

Jameco 9-Pin Serial Cables

AT and compatibles

· DE9-pin serial ports which need to be converted to DB25-pin serial Molded DE9 female to

DB25 male connectors

Length: (109583) 11: (31721) 6

	Description	Weight (lbs.)	1-9	10-24
109583	1' serial cable	0.2	\$3.95	\$3.49
31721*	6' serial cable	0.3	4.95	4.49

Jameco Switch Box Mouse Cable

· 6' serial cable - DE9 female to DE9 female

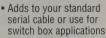
· Use with switch box P/N 132249 (pg 118)

Length: 6.0'

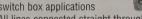
Part No. 10-24 Description Weight (lbs.) 132345 Serial mouse cable 0.3.....\$4.95 \$4.49

Jameco DB25-Pin **Extension Cables**

· Molded and fully shielded DB25-pin male and female connectors



39511



· All lines connected straight through

· Thumbscrews make it easy to secure cables quickly without tools

Part No.	Description	We	ight (lbs.)	1-9	10-24
65787	6' male to	male	0.5	\$4.95	\$4.49
39538★	10' male to	male	0.7	6.95	6.25
67070	25' male to	male	1.4	9.95	8.95
67256	6' male to	female	0.5	4.95	4.49
39511★	10' male to	female	0.7	6.95	6.25
101995	25' male to	female	1.4	9.95	8.95
		DO 10	77.00		

Jameco PS/2 Keyboard **Adapter Cables**

28003: • Connects AT type keyboards to the PS/2

· 5-pin female DIN to 6-pin male mini DIN

• Length: 7.3" • Color: beige



· Connects PS/2 keyboard to AT compatible computer 6-pin female mini DIN to 5-pin male DIN connectors

• Flexible cable • Length: 8.5" • Color: beige

Part No.	Description We	ight (lbs.) 1-9	10-24
28003	AT keyboard adapter	.06\$4.95	\$4.49
85500★	PS/2 keyboard adapter	.084.95	4.49

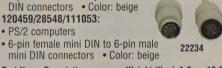
Jameco Keyboard Extension Cables 22234/112045/114981:

PC/XT/AT and compatibles

• 5-pin male DIN to 5-pin female DIN connectors • Color: beige

PS/2 computers

mini DIN connectors . Color: beige



Part No.	Description Wei	ght (lbs.) 1-9	10-24
22234*	PC/XT/AT 5' coiled	0.2\$4.95	\$4.49
114981	PC/XT/AT 6' non-coiled	0.2 5.25	4.75
112045	PC/XT/AT 10' non-coiled	0.3 5.49	4.95
120459	PS/2 5' coiled	0.2 Closeout	1.95
28548*	PS/2 6' non-coiled	0.2 5.25	4.75
111053	PS/2 10' non-coiled	0.3 5.49	4.95

IBM PS/2 Keyboard Cables



-				- 0
	lam	000	Switch	Roy
	Jail	CCU	OMITCH	DUX
	Ade	nto	Cables	
				70

114913: • 5' 5-pin DIN male coiled cable for 114163/114155 switch boxes - see pg 117

112627: • 10' 6-pin mini DIN male non-coiled cable for 79177 switch box - see pg 117

Part No. Description Weight (lbs.) 1-9 0.2\$4.95 114913 ★ 5-pin DIN cable 112627 6-pin mini DIN cable 0.3 5.95

Jameco VGA Monitor Extension Cables

 PC/XT/AT and compatibles

 Extends VGA monitor cable DA15 male to DA15 female

P/N 66165 - thumb screws on each end



66165 134041

P/N 134041 - DA15 female with hex nuts and DA15 male with thumb screws . Length: 6'

Part No. Description Weight (lbs.) 1-9 10-24 66165★ Cable - thumb screws 0.3 ...\$4.95 \$4.49 134041 Cable - screws/hex nuts 0.44.95 3.95

Jameco VGA **Monitor Cable**

PC/XT/AT and compatibles

· Connects video card to VGA monitor

· DA15 male to DA15 male

. Length: 6'

Part No. Description Weight (lbs.) 6' monitor cable 0.3.....\$4.95 \$4.49

Jameco Monitor Extension Cable

· PC/XT/AT and compatibles

· For monochrome, RGB, EGA and multisync monitors

· Extends standard monitor cable

• DE9 male to DE9 female

· Length: 6'

Part No.	Description		Weight (lbs.)	1-9	10-24
25700★	6' extension	cabl	le 0.3	\$4.95	\$4.49

Jameco Standard Monitor Cable

· PC/XT/AT and compatibles

· For monochrome, RGB, EGA and multisync monitors

· Connects video card to monitor

• DE9 male to DE9 male • Length: 6'

Part No. Description Weight (lbs.) 10-24 6' standard cable 66157 0.3.... \$4.49

Jameco Monitor Power **Adapter Cable**

· PC/XT/AT and compatibles

· Allows connection of monitors direct to standard IBM type power supplies

· Monitor turns off/on automatically via system power switch . Length: 6

3.95



Part No. Description Weight (lbs.) 1-9 Monitor power cable 0.4......\$3.95

Jameco CD-ROM Cables

Connects your CD-ROM directly to your sound card making installation quick and easy!



• 2 x 28 AWG • Weight: .02 lbs.

127546: compatible with most CD-ROMs

Part No.	made for:	Length	1-9	10-24
127546	Sony	25"	\$4.95	\$4.49
136928	Panasonic	20"	4.95	4.49
136936	Mitsumi	20"	4.95	4.49



112627

Distributor Network

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m ince~1977$, Jame $_{
m co}$ continues to offer our most popular items through our JIM-PAK line. Over 1000 products are available through our distributor network. All IIM-PAK items are indicated with a * in this catalog and may be purchased from either Jameco or your JIM-PAK distributor. Prices may vary. IIM-PAK gives you the flexibility of having the products you need the same day. If for some reason your local distributor does not have the item in stock, call us, and we will supply them to you with no minimum order service charge. Please notify us at that time which distributor and part were out of stock and we'll make sure they have it in stock on your next visit.



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Electronics Plus Littleton (508) 486-3375

Michigan

Bell Electronics Co. St. Clair Shores (810) 777-8232 Benton Electronic Supply Benton Harbor (616) 925-0060 Westland (313) 595-6655 Fulton Radio Supply Co. Lansing (517) 394-5020 Niles Radio Supply Niles (616) 684-0550 Norwest Electronics Livonia (313) 261-4551 Grand Rapids (616) 241-3645 Tel-Van Electronics Supply Dearborn Heights (313) 561-6080

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AEI Electronic Parts Minneapolis (612) 338-4754

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Hooper Electronics Biloxi (601) 432-0584 Jackson (601) 353-0922 Meridian (601) 693-2668 Pascagoula (601) 762-9383

N & H Electronics Co. Hattiesburg (601) 582-5571

Missouri

Cardinal Electronic Center Springfield (417) 869-0752 Electronic Supply Kansas City (816) 931-0250

Montana

Electronic Service & Dist. Bozeman (406) 587-4466

Nebraska

Leuck Radio Supply Lincoln (402) 476-2797 Scott Electronic Supply Corp Omaha (402) 734-6750

New Mexico

Popkey Electronics Albuquerque (505) 293-8500

New York

Central Electronics Utica (315) 735-6474 Radio Equipment Corp. Buffalo (716) 874-2690 Trojan Electronic Supply Co. Troy (518) 274-4481

Unicorn Electronics, Inc. Johnson City (607) 798-0260

Ohio

Electronic Supply Company Lancaster (614) 653-9344 Philcap Electronics Akron (216) 253-2109 Superior Electronics Parma (330) 842-7940

Oregon

Salem (503) 585-9810 Creative Electronics Corvallis (541) 754-9422

Pennsylvania

Kass Electronic Distributors Drexel Hill (610) 449-2300 Leff Electronics Braddock (412) 351-5000

Levco Communications Erie (814) 452-3487 Wallco, Inc. Wilkes-Barre (717) 823-6181

Rhode Island

Jabbour Electronic Supplies, Inc. Pawtucket (401) 728-4600

South Dakota

Chris Supply Co. Rapid City (605) 342-5900

Tennessee

Eddie Warners, Inc. Nashville (615) 254-1224 Randolph Electronics Cookville (615) 526-6184 Randolph, Hale & Matthews, Inc. Clarksville (615) 647-2325 Randolph & Rice Nashville (615) 255-5601

Shields Electronics Supply Bristol (423) 764-0157 Chattanooga (423) 622-6888 Knoxville (423) 588-2421 Systems One La Follette (423) 566-1785

L & M Wholesale Electronics Waco (817) 754-4644 More Electronics & Auto Supply Brownsville (210) 546-3743 Valley Wide Electronics McAllen (210) 631-7115

Virginia

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Washington

C & G Electronics Tacoma (253) 272-3181

Wisconsin

Chester Electronics Kenosha (414) 658-4616

International

Comet Warehouse SDN BHD Selangor, Malaysia 603-733-8898 St. Maarten, Caribbean 5995-42594 Pedro Mejias & Company Santo Domingo, Dominica Republic (809) 221-1343 Proyección Electrónica Mexico City 525 536-8967

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If you own or operate an electronics store and are interested in carrying the JIM-PAK line, please contact us today and we will forward our HM-PAK Distributor information

packet to you immediately.

- · Increased quantity per package to raise your average sale
- · Only top selling and most popular items from the Jameco catalog are included in the JIM-PAK line
- · Bulk pricing offered on all products
- Custom packaging offered for an additional 5,000 items through Jameco Electronics Catalog offering
- · Free UPS shipping on orders over \$500
- · Free advertising in Jameco Catalog with circulation of 325,000 mailed quarterly
- · Updated pricing schedule published semi-annually to reflect current market prices
- · 99% of orders ship complete year-round
- · Over 20 years experience providing service to electronics distributors nationwide



Fiber Optics Cable Tester

This compact fiber optics cable tester allows you to test fiber optics cable for continuity by sending a beam of light from a transmitter and receiving by a optical receiver. It generates 850nm/1300nm wave length and tests cable spool. Works with these fiber optic cables of multimode: 50um, 62.5um



and 100µm, single, duplex or bundle.

- · ST optical receiver and transmitter connections
- · Can test fiber optics with ST or SC connectors
- · Power LED indicator
- · Easy to read receiving range
- · Weight: 0.4 lbs. · One-year warranty

Specifications:

- Output wavelength: 850nm ±20nm @ 3dB down
- Optical power output: -26dBm ±1dBm in 50u core -23dBm ±1dBm in 62.5µ core -20dBm ±1dBm in 100µ core
- · Power out indicator range: -22dBm to -40dBm
- Indicator resolution: 2dBm

Part No.	Description	Price
145859	Fiber optics cable tester	\$249.95

Cable Tie **Canister Pack**

- 10 colors (1000 pieces)
- . Tension strength: 18 lbs.
- Size: 4.0"L x 0.1"W
- · Weight: 0.7 lbs.

Part No. Description

10-49 145701 Cable ties (canister pack) \$6.95 \$6.25 \$5.49

Tectrol 65 Watt Switching Power Supply 71 (I)

- Input voltage: 90-256VAC @ 47-63Hz
- Requires power cord (P/N 38050 - pg 57)
- Mating output connector: P/N 103202 (pg 45)
- On/off rocker switch mounted on chasis
- · Minimum load: all outputs at 10% of rated load
- UL/CSA/TUV approved
- Size: 7.6"L x 3.8"W x 1.8"H

· Weight: 1.8 lbs. 1-9 10-24 Product No. T065/10 (1100 in stock)\$9.95 \$8.95 146106

PARALLAX & BASIC Stamp AppKits

Parallax AppKits include the materials and parts you need to learn about interfacing electronic devices to BASIC Stamp I and II computers, and PIC microcontrollers. Each kit contains the



sample device and supporting parts, and source code written for BASIC Stamps and PICs.

· Weight: 0.1 lbs. · One-year warranty

Part No.	Description 1-4	5-9
146456	AppKit: digital thermo\$34.95	\$31.49
146430	AppKit: DTMF transceiver 34.95	31.49
146448	AppKit: 12-bit A/D convert34.95	31.49

PCI UTP/BNC Ethernet Card

- · Support for Network Operating Systems: Novell NetWare. Microsoft Windows® for Workgroups. Windows® 95 and Windows® NT
- NE2000 compatible and supporting plug & play function
- Integrated full duplex operation for simultaneous
- receive and transmit Medium auto sensing Diagnostic LEDs easily visible on bracket
- · On board BOOT ROM socket
- · Compliant with PCI local bus · FCC certified
- Weight: 0.5 lbs
 One-year warranty

0	Description	1-4	5-9
144928	PCI UTP/BNC card\$34	.95	\$31.49

Xcelite 7-Piece Precision Screwdriver Set

· 4 flat points: 0.1"Dia. x 5.44"L; 0.1"Dia. x 6.0"L: 0.1"Dia. x 6.5"L .12"Dia. x 7.25"L

3 Phillips:



No. 1, .18"Dia. x 7.125"L; No. 0, .12"Dia. x 5.75"L; No. 00, 0.1"Dia. x 6.0"L

Part No.	Description	Price
146632	7 piece precision screwdriver	\$24.95

Xcelite Pliers

			4
Part No. Description	on		Pric
 Weight: 0.2 lbs. 	146739	146712	146721
 Spring returns 		7	
alloy steel	400	A	100
 USA-made 	4		1

Part No.	Description	Pric
146739	Diag. wire cutter - semi-flush	\$13.9
146712	Micro series wire cutter - flush	4.9
146721	Long nose - flat	16.9

3M Super 77 Spray Adhesive

Comes with a variable spray width, no methylene chloride, 1.1.1-trich or chloroflourocarbons.

- Multipurpose
- · Meets EPA requirements
- · Weight: 2.0 lbs. 24 oz. can

Part No. Description

Super 77 spray adhesive.....\$10.95 \$9.95 146579

Glue Stick

adhesive

2-Button Bus Mouse

- · High resolution ergonomic design
- · Microsoft mouse, Mouse Systems compatible
- · Includes mouse. software and bus card
- Mouse size: 4.5"L x 2.8"W
- Bus card size: 4.3"L x 3.0"H
- Weight: 0.9 lbs
 One-year warranty

Part No.	Description	Price
146641	2-button bus mouse	.\$29.95

Black Magic Telephone Ringing Generators



Telephone ringing generators are miniaturized, monolithically encapsulated four terminal devices (input/output isolated) intended for direct PCB mounting. Generically, they are switching inverters producing low-frequency alternating current to signal telecom ringers or equivalents. By multiplexing the ringing bus, a single generator can support up to several hundred ports. Best employed where space is tight and/or modular design is desired so as to speed design and manufacturing or troubleshooting.

- No reverse polarity protection Frequency: 20 Hz
- Voltage (Nom): 86V

No.	Prod. No.	Series Resistor	1-9	10-24	25+
145832	PBMR5	300Ω	\$14.95	\$13.49	\$12.95
145841	PBMR12	300Ω	14.95	13.49	12.95
145824	LBMR5	300Ω	29.95	26.95	24.95
145816	LBMR12	300Ω	29.95	26.95	24.95
145795	MBMR24	N/A	45.95	41.49	37.95
145808	MBMR48	N/A	45.95	41.49	37.95

BOMAR BNC Connectors

• 146258: ideal for applications where multiple insertions will require a connector which can endure the stress of high torque



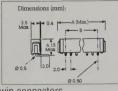
146510, 146544, 146536: maintaining matching impedance at 50 and 75 ohms.

Part No.	Description	Length (L)	1-9	10-99	100+	500+
146528	Straight PC mount 50 ohms	.830 mm	\$1.95	\$1.49	\$1.25	\$.99
146510	BNC low profile with posts	.515 mm	1.95	1.49	1.25	.99
146536	BNC super low profile w/clips	.340 mm	2.95	2.49	1.95	1.75
146544	BNC V-BITE® PC edge mount	.253 mm	2.49	2.25	1.95	1.49

Right Angle PC-Tail Male M80 Connectors HARWIN

- 2 mm pitch
- Polarized mouldings
- Fully shrouded contacts
- Contact Rating: 3.3A max. @ 25°C
- Gold plating on contacts. tin/lead on tails

See page 42 for more Harwin connectors





ood page 12 for more than the commence							
Part No.	Description	Position	A	В	1-9	10-99	100+
146229	2 pos. unlatched	2	7.6	2.0	\$1.59	\$1.45	\$1.29
146211	3 pos. unlatched	3	9.6	4.0	1.69	1.55	1.39
146237	4 pos. unlatched	4	11.6	6.0	1.79	1.65	1.59
146245	7 pos. unlatched	7	17.6	12.0	1.95	1.85	1.69

PRODUCTS! DATA I/O Universal

8KB-8MB EPROM Programmer Parallel Port, DOS/Win 3.18/Win8 95

 Operating voltage: 100/110/220/ 240VAC

· Programs 8 and 16-bit EPROMs up to 8MB, paged **EPROMs** EEPROMs and serial EEPROMs (including 8-pin).



flash devices and NVRAMs bi-polar PROMs, PALs, GALs, PEELs, PALCEs, EPLDs

· Package supports DIPs up to 48-pin

· File formats supported: binary, ASCII-SPACE hex. ASCII-local, standard hex, Motorola hex, Intel MCS 86 hex, Tektronix hex, ext. Tektronix hex, TI hex, Xilinx hex, Altera POF, standard JEDEC

· Device operations: read/load, dual pass verify, verify signature, illegal bit test, blank check, program erase, ID test, device insertion/continuity test, checksum

· Memory editing features: basic RAM editing fill/copy RAM, search for particular string in RAM, byte swap, set buffer size, device serialization

 Logic editing features: view fusemap, basic fuse editing, fusemap fill, PAL to GAL fusemap conversion, edit UES, test vector generation/edit and more

· Includes parallel cable (6' long), user software and manual, IC tester with 48-pin DIP socket, external power supply/recharger, fault diagnostics software

Size: 9.5"L x 6.0"W x 2.5"H • Weight: 5.5 lbs.

· One-year warranty

Part No. Description 145365 Univ. EPROM programmer\$999.95

PIC-SERVO Motor Control Chip Set A Complete Motion Control System on a Chip

· P.I.D. servo control for DC motors with incremental encoders

· Position, velocity and PWM control modes · 32-bit resolution

acceleration and velocity profiling

· Standard serial interface supports multi-drop networking

Two chip set (PIC-SERVO: 28-pin DIP. PIC-ENC: 18-pin DIP)

· Full documentation, test software and technical support available from the J.R. KERR PROTOTYPE DEVELOPMENT web site: "www.jrkerr.com"

Part No. Description 1-9 PIC-SERVO Chip Set .. 146472 \$34.95 \$31.49



· Wireless device integrated text, pointing, and multimedia functions

· Scissors key switch technology provides better typing feeling

14 extra programmable function, one DRAG key

Full range mouse control keys

. Infrared transmitting technology (up to 23')

· Low power consumption when not in use

· Low battery indicator

· Includes keyboard, receiver unit, airboard manager software diskettes, users manual, Y cable with two connectors (6-pin keyboard and 9-pin RS232)

Size: 15.3"L x 7.5"W x 1.5"H

· Weight: 2.9 lbs. · One-year warranty

System requirements:

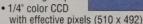
IBM PC or compatible system, Windows® 95 (for Airboard Manager Software), available 9-pin RS232 serial port

Part No. Description 89-key wireless keyboard .. \$89.95 \$79.95



Video Phone/Camera with Microphone and Software

· Full motion, true color video/still digital camera solution allows video conferencing over the Internet or LAN with sound and still image capture



Data interface: printer port (DB25 male connector; EPP/ECP mode)

 Internet videoconferencing requires: Pentium® 75 or faster PC or compatible, 16MB RAM, 256 color VGA, Windows® 95 with AVI interface, CD-ROM drive, 16-bit sound card, speaker, and 28.8 modem

· Includes microphone, camera assembly with tilt base, cable adapters, and CD-ROM

Camera size: 4.0"L x 4.0"W

· Weight: 1.3 lbs. · One-year warranty

Part No. Description Price 146704 Hi!Net Video Phone\$159.95



· 256KB cache RAM, upgradeable to 512K

Lite-on 89-Key Wireless Keyboard JAMECO 75MHz Pentium® System

Hard disk and floppy I/O controller card

Four exposed bays (two 5.25", two 3.5"); one internal 3.5" bay

· 3.5" floppy drive with cables

Four PCI slots and three ISA slots

· Mini tower case with 230 watt

power supply (UL listed) Includes keyboard, 9-pin serial mouse, and cables
 Case size: 16.3"L x 7.0"W x 13.1"H

· Weight: 20.3 lbs. · Six-month warranty

Part No. Description System w/ Intel 75MHz Pentium®....\$349.95

PHOEBE **56Kbps Internal Data/Fax Modem with Voice**

 X2 technology (software upgradeable to future 56K standard) · Create many voice and

fax mail boxes with personalized messages 100% reliable data

transfer with V.42 bis / MNP2-4 error checking and data compression V.42 bis, MNP5

. Supports group III fax and utilizes AT enhanced command sets

· Includes Cheyenne software (3.5" disk), cables Size: 6.0"L x 4.3" and manual

· Weight: 1.1 lbs. • One-year warranty

Description

56 kbps (X2) internal modem......\$109.95

PCI I/O Cards

· PCI bus

 PnP ready · Software support for

DOS, Windows® 95

 One-ye 	ar warranty	E I I I I I I I I I I I I I I I I I I I	AL MAIL WHILE PLANE A
Part No.	Description	146675	Price
146659	1 serial (16550 UAF	RT) port	\$99.95
146667	2 serial (16550 UAF	RT) ports	129.95
146691	1 parallel (ST78C34) port	99.95
146683	2 parallel (ST78G34) ports	129.95
146675	1 parallel, 2 serial p		139.95



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